MOFFAT®

E85 PROOFER CABINETS

E85HLD PROOFER / HOLDING CABINETS

SERVICE MANUAL

turbofan

Revision 5/F3517

December, 2004

Manual P/N M0ME85

⚠ WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.

Revision 5/F3517

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CONTENTS

This manual is designed to take a more in depth look at the E85 prover and E85HLD prover / holding cabinets for the purpose of making the unit more understandable to service people.

There are settings explained in this manual that should never require to be adjusted, but for completeness and those special cases where these settings are required to change, this manual gives a full explanation as to how, and what effects will result.

SECTION **PAGE NO.**

1. SPECIFICATIONS 5

2. INSTALLATION 8

3. OPERATION 9

3.1 Description of Controls - E85 Models
3.2 Description of Controls - E85HLD Models
3.3 Explanation of Control System

4. MAINTENANCE 13

4.1 Cleaning
4.2 Routine Procedures

5. TROUBLE SHOOTING GUIDE 15

6. SERVICE PROCEDURES 17

6.1 Fault Diagnosis
6.2 Access
6.3 Replacement

7. ELECTRICAL SCHEMATICS 27

8. ELECTRICAL WIRING DIAGRAMS 29

9. SPARE PARTS 33

10. ACCESSORIES / OPTIONS 34

11. PARTS DIAGRAM 35

11.1 Main Assembly (Non HLD Only)
11.2 Main Assembly (HLD Only)

IMPORTANT: MAKING ALTERATIONS MAY VOID WARRANTIES AND APPROVALS.

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11.3 Control Panel Assembly (Non HLD Only)
11.4 Control Panel Assembly (HLD Only)

12. SERVICE CONTACTS 43

13. APPENDIX A. Stacking Kit Instructions 45

14. APPENDIX B. Auto Water Fill Kit Instructions 47

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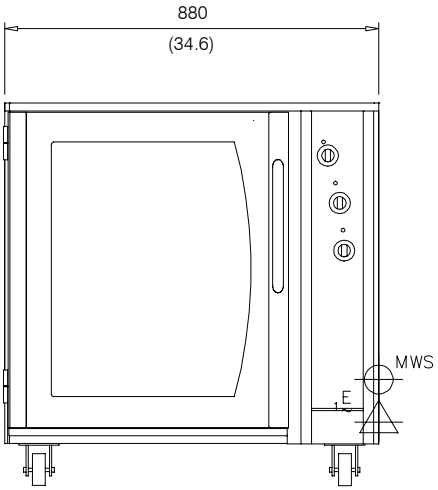
1. SPECIFICATIONS

MODEL: E85-8, E85A-8, E85-8HLD, E85A-8HLD



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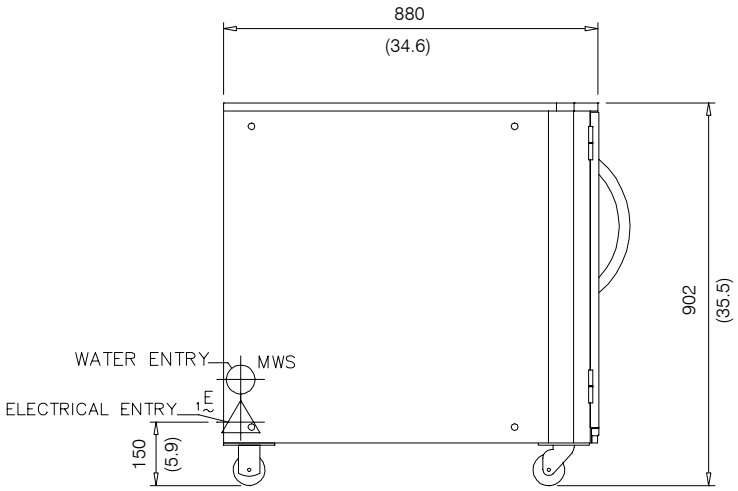

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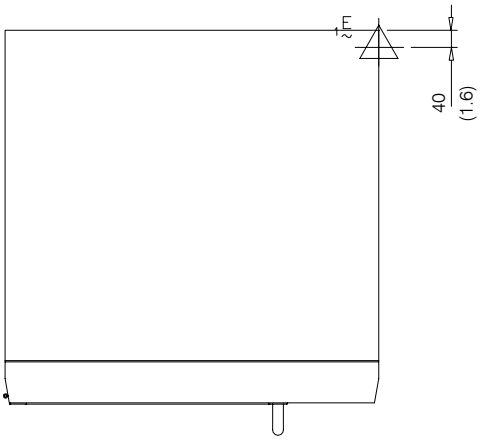

PLAN

LEGEND

E - Electrical connection entry point

MWS - Water entry - ¾" BSP (Autofill models only)

Dimensions shown in millimetres.
Dimensions in inches shown in brackets.

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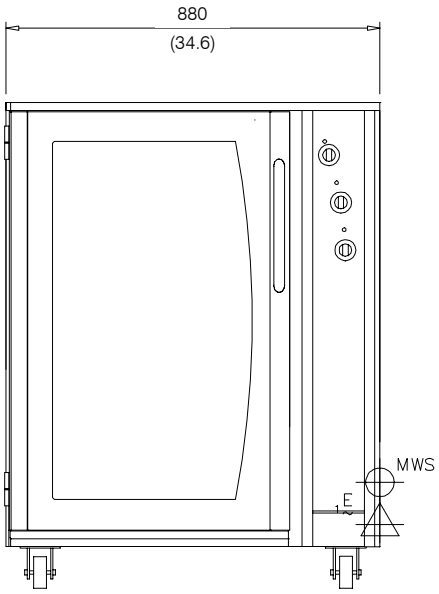
MODEL: E85-12, E85A-12, E85-12HLD, E85A-12HLD



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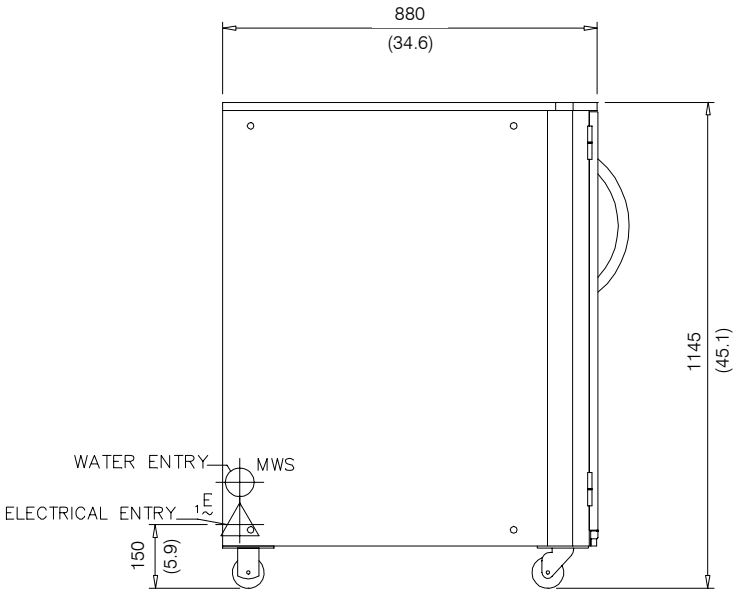

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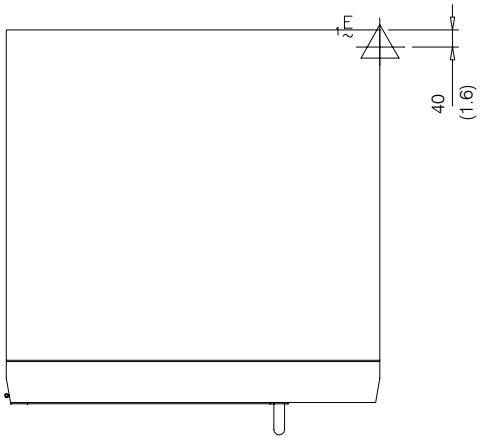

PLAN

LEGEND

E - Electrical connection entry point

MWS - Water entry - ¾" BSP (Autofill models only)

Dimensions shown in millimetres.
Dimensions in inches shown in brackets.

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LOCATION

To ensure correct operation the following minimum installation clearances are to be adhered to:

Rear	0mm / 0”
Left-hand side	0mm / 0”
Right-hand side	25mm / 1”

Provision must be allowed for the door opening.

PROVER INTERNAL DIMENSIONS

E85-8

Width	460mm / 18”
Height	700mm / $27^{5}/_{8}$”
Depth	660mm / 26”
Prover Volume	0.21m³ / 7.5ft³

E85-12

Width	460mm / 18”
Height	945mm / $37^{1}/_{4}$”
Depth	660mm / 26”
Prover Volume	0.29m³ / 10.1ft³

PROVER RACK/PAN SIZE CAPACITY

Width	460mm/18” or 405mm/16”
Depth	660mm/26” or 760mm/30”

RACK POSITIONS

Number - E85-8: 8
- E85-12: 12

Spacing 76mm/3”

ELECTRICAL SUPPLY SPECIFICATION OPTIONS

100-120 Volts A.C. 60 Hz, 14.5 A, 1.6kW
220-240 Volts A.C. 50 Hz, 7.2 A, 1.65kW

ELECTRICAL PLUG SPECIFICATION REQUIREMENTS

Australia	3-pin 250V 10A, AS/NZ 3112
Canada	3-pin 120V 15A, NEMA 5-15
New Zealand	3-pin 250V 10A, AS/NZ 3112
United Kingdom	3-pin 250V 13A fused, BS 1363A
United States	3-pin 120V 15A, NEMA 5-15
Other Countries	3-pin 250V 10A minimum, type to meet country standards

WATER SUPPLY CONNECTION

(Autofill Models Only)

Max Pressure	550 kPa / 5.5 bar / 80 psi
Min Pressure	100 kPa / 1.0 bar / 15 psi

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2. INSTALLATION

⚠ **WARNING: THIS APPLIANCE MUST BE GROUNDED.**

⚠ **WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.**

It is most important that the proofer is installed correctly and that the operation is correct before use. Installation shall comply with local electrical, health and safety requirements.

BEFORE CONNECTION TO POWER SUPPLY

Unpack and check unit for damage and report any damage to the carrier and dealer. Report any deficiencies to your dealer. Check that the available power supply is correct to that shown on the rating plate located on the right-hand side panel.

100-120 Volts A.C. 60 Hz, 14.5 A, 1.6kW
220-240 Volts A.C. 50 Hz, 7.2 A, 1.65kW

LOCATION

To ensure correct operation the following minimum installation clearances are to be adhered to:

Rear	0mm / 0”
Left-hand side	0mm / 0”
Right-hand side	25mm / 1”

Provision must be allowed for the door opening.

ELECTRICAL CONNECTION

E85 models are supplied with pre-fitted cords. Ensure unit is fitted with correct cord and plug for the installation (refer specifications section).

Should changing of the cord be necessary, gain access to the electrical connection terminal block and strain relief clamp by removing the RH side panel.

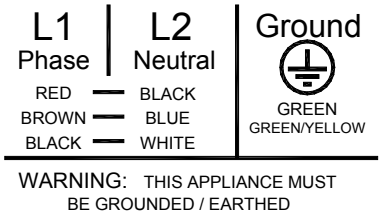

Figure 2.1

DOUBLE STACKING UNITS

When it is desired to mount a Turbofan E35 convection oven on an E85, a double stacking kit must be used. Available from your dealer or Turbofan distributor (see Spare Parts). For stacking kit assembly instructions, refer Appendix A.

NOTE: United Kingdom and USA/Canada models are supplied with a top panel fitted. Other country models are pre-fitted with the double stacking kit on the proofer for direct stacking under E35 convection ovens.

RACK WIDTH POSITIONS

The E85 models have an adjustable rack width setting. This allows for the racking to be configured for 405mm / 16” or 460 / 18” wide baking sheets/pans or racks.

To set width remove right hand side rack. Unscrew and remove four thumbscrews at bottom and top of cabinet. For 16” wide trays, turn the rack supports such that they face the left side of the proofer. For 18” trays, turn the rack supports to the right of the proofer.

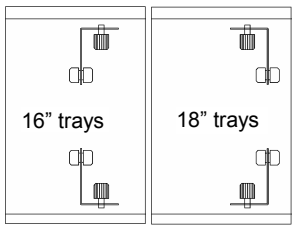

Figure 2.2

RATING PLATE LOCATION

The rating plate for the E85 prover is located at the bottom left corner of the RH side panel.

Figure 2.3

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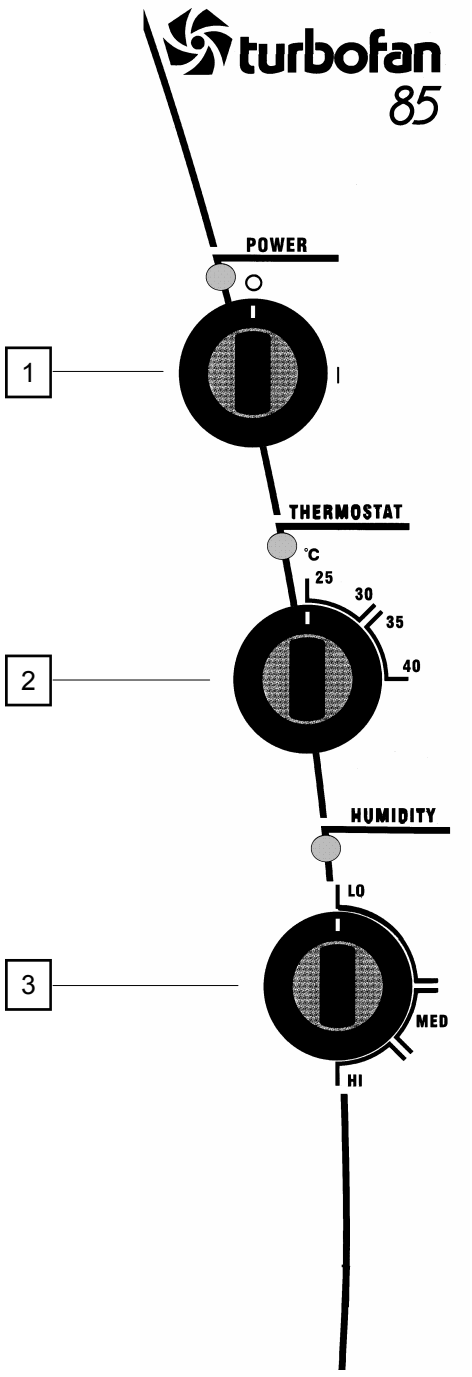
3. OPERATION

NOTE: A full user's operation manual is supplied with the product and can be used for further referencing of installation, operation and service.

3.1 DESCRIPTION OF CONTROLS - E85 PROVERS



1. POWER

O UNIT IS OFF

I UNIT IS ON (Indicator illuminates when switched to this position)

2. THERMOSTAT

Temperature range 25 - 40°C (75 - 105°F).

Indicator illuminates when elements are cycling ON to maintain set temperature.

Controls the proofer air temperature.

3. HUMIDITY CONTROL

(Indicator illuminates when water tank elements are cycling ON to maintain set humidity).

Controls proofer humidity.

LO - Humidity setting for butter based pastries (croissants, Danish pastries etc).

MED / HI - Humidity setting for yeast based breads and dough.

WATER

Manual Water Fill Models: Open the proofer door. Fill the water tank at the filling spout, located at the front of the right hand side rack, to approximately 20mm / ¾" from the top of the tank. Remember to top up the water tank when the water level is below the halfway level in the tank and before the heating element is exposed.

Auto Water Fill Models: Check that the water tank is filling, and the heating element is well covered. Unit must be switched on for water tank auto-fill system to operate.

CONDENSATE PAN (Auto water fill models only)

A pan is provided on guides underside the cabinet for the collection of cabinet and door condensation. Where provided, remove the drain plugs in the cabinet floor centre and door condensate channel below the door, to allow condensate collection in the pan. Remove the pan daily for emptying.

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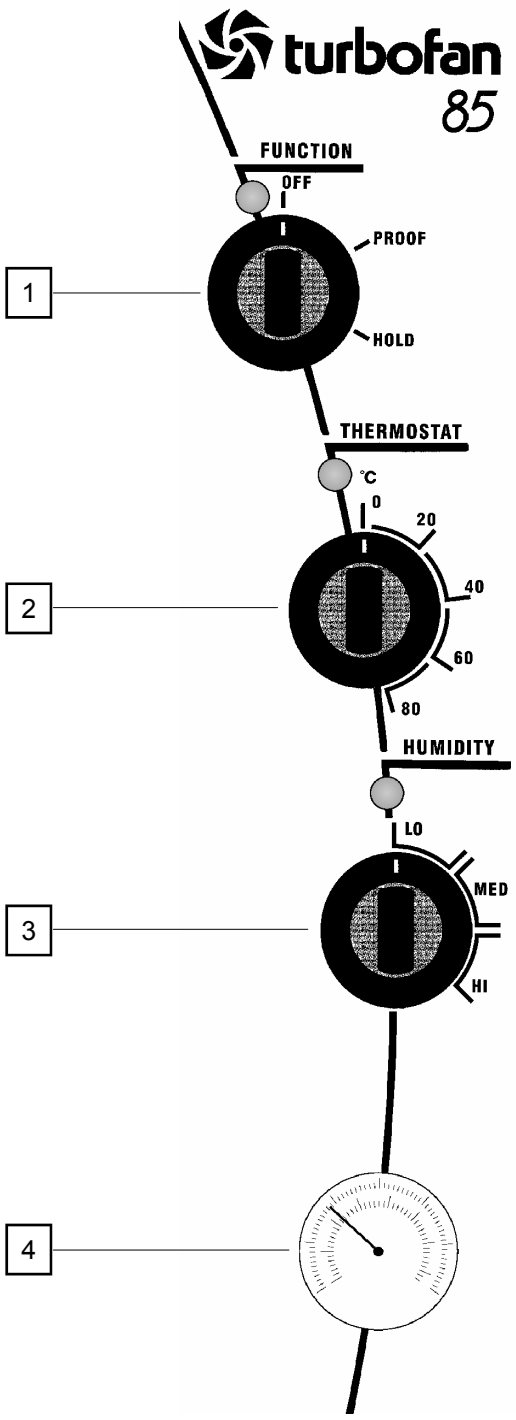
3.2 DESCRIPTION OF CONTROLS - E85HLD PROVER/HOLDING CABINETS



1. FUNCTION

OFF Unit is off.

PROOF Unit is in proofing mode. (Indicator illuminates when switched to this position)

HOLD Unit is in holding mode. (Indicator illuminates when switched to this position)

2. THERMOSTAT

Temperature range 0 - 80°C (32 - 176°F).

Indicator illuminates when elements are cycling ON to maintain set temperature.

Controls the proofer air temperature.

3. HUMIDITY CONTROL

Proofing function only, redundant in hold mode. (Indicator illuminates when elements are cycling ON to maintain set humidity).

Controls proofer humidity.

LO - Humidity setting for butter based pastries (croissants, Danish pastries etc).

MED / HI - Humidity setting for yeast based breads and dough.

4. THERMOMETER

Dual Centigrade and Fahrenheit scale. Indicates cabinet temperature.

WATER

Manual Water Fill Models: Open the proofer door. Fill the water tank at the filling spout, located at the front of the right hand side rack, to approximately 20mm / ¾" from the top of the tank. Remember to top up the water tank when the water level is below the halfway level in the tank and before the heating element is exposed.

Auto Water Fill Models: Check that the water tank is filling, and the heating element is well covered.

CONDENSATE PAN (Auto water fill models only)

A pan is provided on guides underside the cabinet for the collection of cabinet and door condensation. Where provided, remove the drain plugs in the cabinet floor centre and door condensate channel below the door, to allow condensate collection in the pan. Remove the pan daily for emptying.

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3.3 EXPLANATION OF CONTROL SYSTEM

The E85 Prover and Prover/Holding Cabinets feature operator controls and an electrical circuit for which a direct understanding of their operation is required before carrying out any service work or fault repair work. The control device functions and electrical circuit are explained as follows:

A rotary switch on the control panel of these models functions as the power On/Off switch of the unit by isolating the Line 1 phase supply.

E85 Prover only models this switch is a 2 pole device, with 1 pole isolating power to the air circulation fan motor and the other pole isolating power to the water tank heating element controls and the dry heating element controls.

On E85HLD Prover/Holding Cabinet models this switch is a 3 position, 4 pole, multi-function switch which in the Off position opens circuits all poles and isolates power from all control and heating systems.

In the 'Proof' position poles P3 and P4 are closed, operating the electrical circuit functions as follows:

P3 – Humidity control thermostat
P4 – Air heating thermostat, air circulation motor and control panel power indicator.

In the 'Hold' function position pole P4 remains closed, pole P3 opens to isolate the humidity control, and pole P2 closes. Power to pole P2 is fed from the air heating thermostat and switches power through to the additional hold heating element.

With both E85 Prover and E85HLD Prover/ Holding Cabinets this power and power function switch will also switch power on Auto water-fill models to the water solenoid switching relay.

The air circulation fan and control panel power indicator are On continuously on all E85 models when the power or power/function switch are in an On position.

The proofing system operates on all models, controls air temperature and humidity levels by way of an air heating element controlled by a mechanical bulb and capillary thermostat and a water tank heating element controlled by a mechanical bulb and capillary thermostat.

The air heating element is positioned in the bottom of the air circulation ducting inside the cabinet and is directly controlled by the user-adjustable thermostat mounted to the control panel. The thermostat sensing bulb is mounted inside the cabinet to control the cabinet air temperature to the control panel setting. An indicator light on the control panel above this thermostat will illuminate when the thermostat has the air heating element operating and will cycling Off with the thermostat to indicate when the temperature reaches set point.

The water tank heating element controlled by the humidity level thermostat mounted to the control panel is used to heat the water tank water and maintain the water tank temperature between 50°C (122°F) and 80°C (176° F). This water tank temperature is controlled by the humidity level thermostat setting between the adjustments of low and high humidity. The evaporation rate of the water in the water tank dependent on its temperature, provides humidity into the cabinet and accordingly the setting of the humidity thermostat controls the rate of evaporation and therefore the humidity level in the cabinet.

An indicator light on the control panel above the humidity dial illuminates when the water tank element is On, and cycles Off when the thermostat switches the heating element Off to provide an indication of the humidity control. The sensing bulb of the humidity thermostat is mounted directly on the water tank heating element which are both immersed in the water tank. Should the water tank level drop below the heating element the humidity thermostat will cycle Off due to the sensing bulb reacting to the radiated heat off the heating element and will prevent the humidity water tank heating element burning out through excessive temperature.

E85 Auto-Water fill models provide for a mains cold water supply connection for auto-matic water tank filling and level control. Non-Auto water-fill models require the operator to manually fill the water tank and maintain the water tank level as the water evaporates through operation.

On auto water-fill models, an electric water

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solenoid, float switch and relay maintain the water level in the humidity tank. The float switch is mounted at the rear of the water tank, and when below the full water level position, it open circuits, removing power from the relay coil, and therefore allowing power through the normally closed contact of the relay to energise the water solenoid. As the water reaches the full level position the float switch will close circuit, energising the relay and therefore removing power from the normally closed position of the relay, thus turning off the water solenoid.

Ensuring that the power or power function switch is in the Off position is necessary whenever removing the removable water tank for cleaning, as when the water tank is removed the float switch drops and the water solenoid valve will be opened if the electrical circuit is switched On. Therefore as a precaution the mains water supply should also be switched Off whenever removing the water tank.

E85HLD Prover/Holding Cabinets are able to be operated both as a proofing cabinet and as a holding cabinet.

As explained in earlier paragraphs, when the power function switch on these models is selected to the 'Hold' position the humidity control circuit is turned Off and an additional air heating element is connected into the air temperature thermostat circuit. In this mode the air temperature thermostat operates as it does in the proofing mode, however, in this case there is an additional air heating element switched On and Off to provide extra heating power in this mode. The additional air heating element in these models is also mounted in the air circulation ducting.

E85HLD Prover/Holding Cabinets are also provided with a thermometer dial on the control panel to provide an indication of the cabinet temperature and the sensing bulb of this thermometer dial is mounted next to the sensing bulb of the main thermostat inside the cabinet.

On E85 Prover only models the main thermostat is adjustable up to 40°C (105°F) whereas on E85HLD Prover/Holding Cabinet models the main thermostat is adjustable up to 80°C (175°F).

With both models butter based products such as croissants and danish pastries should have the cabinet proofing temperature set around the 25° C (77° F) as higher proofing temperatures will cause the butter to melt out of the product. For yeast based doughs and breads the proofing temperature should be set higher at around 40°C (105°F) in order to activate the yeast in these products. On E85HLD models temperatures higher than this are used for holding food at required serving temperatures and the thermometer dial on the control panel of these models is provided to indicate and verify the actual cabinet temperature and assist with the thermostat setting.

On all models the air circulation fan mounted at the top of the air delivery ducting ensures that the temperature and humidity throughout the cabinet is even by creating a low velocity air circulation system throughout the prover cabinet. This system overcomes the natural occurrence of hot air rising and therefore higher humidity and temperature in the upper positions of the cabinet as found with proofing units without forced air circulation.

The user-adjustable thermostat and humidity controls are required to allow adjustment of cabinet temperature and humidity levels for the variations of temperature and humidity that different product types require.

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4. MAINTENANCE

⚠ **WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.**

4.1 CLEANING

⚠ **WARNING: ALWAYS TURN THE POWER SUPPLY OFF BEFORE CLEANING.**

IMPORTANT: THIS UNIT IS NOT WATER PROOF.
DO NOT USE A WATER JET SPRAY TO CLEAN INTERIOR OR EXTERIOR OF THIS UNIT.

CABINET

A good quality stainless steel cleaning compound is recommended for cleaning the inside and outside of the cabinet. Harsh abrasive cleaners may damage the surface.

SIDE RACKS

To remove, take hold of the centre rung and lift towards the proofer top. To replace, hold horizontally, engage in holes and push down.

DOOR

Wash with warm water and detergent solution using a soft sponge in straight lines up and down the door.

Rinse with clean, warm water to remove detergent. Dry off.

WATER TROUGH

Remove right hand side rack and remove trough. Clean with warm, soapy water. Rinse thoroughly.

WATER TROUGH ELEMENT

When the element becomes limed / scaled, remove water trough and clean. Replace water trough and half fill with white vinegar or acetic acid then fill to the normal level with water. Switch unit on. Set humidity control to 'Hi' and run for approximately 30 minutes. Remove trough and clean element with damp cloth when cooled. Wash out trough and refit.

This procedure is recommended to be done once a week. Frequency of cleaning the element may be increased or decreased depending on the lime depositing on the element.

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4.2 ROUTINE PROCEDURES

	PROCEDURE	INTERVAL
WET ELEMENT	Remove scaling (refer section 4.1).	As required
DOOR SEALS (E85HLD models only)	Inspect door seals on door inside for wear and tear.	6 months
DOOR HINGES	Check for wear.	12 months
ELEMENTS	Check that elements are operating.	12 months

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5. TROUBLE SHOOTING

⚠ **WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.**

FAULT	POSSIBLE CAUSE	REMEDY
THE UNIT DOES NOT OPERATE / START	The unit is not plugged into the wall socket.	Plug in.
	The mains isolating switch on the wall, circuit breaker or fuses are "off" at the power board.	Turn on.
	The power switch on the unit is off.	Depress switch. Switch will illuminate.
	Incorrect electrical supply. **(Refer fault diagnosis 6.1.1)**	Ensure electrical supply correct.
	Power switch faulty (E85). **(Refer fault diagnosis 6.1.1)**	Replace. **(Refer service section 6.3.2)**
	Function switch faulty (E85HLD) **(Refer fault diagnosis 6.1.1)**	Replace. **(Refer service section 6.3.2)**
PROOFING OR HOLDING MODE NOT WORKING (E85HLD models only)	Power / selector switch faulty. **(Refer fault diagnosis 6.1.2)**	Replace. **(Refer service section 6.3.2)**
FAN DOES NOT OPERATE	Faulty fan motor. **(Refer fault diagnosis 6.1.3)**	Replace. **(Refer service section 6.3.8)**
NO HEAT	Thermostat faulty. **(Refer fault diagnosis 6.1.2)**	Replace. **(Refer service section 6.3.3)**
	Function switch faulty (E85HLD) **(Refer fault diagnosis 6.1.2)**	Replace. **(Refer service section 6.3.2)**
	Element blown. **(Refer fault diagnosis 6.1.4)**	Replace. **(Refer service section 6.3.5)**
NO TEMPERATURE CONTROL	Faulty thermostat. **(Refer fault diagnosis 6.1.5)**	Replace. **(Refer service section 6.3.3)**
NO HUMIDITY	No water in trough. (Manual fill models)	Fill trough with water.
	Auto-fill system faulty. (Auto-fill models only)	**(Refer Fault: Auto-fill not working)**
	Faulty thermostat. **(Refer fault diagnosis 6.1.6)**	Replace. **(Refer service section 6.3.4)**
	Function switch faulty (E85HLD) **(Refer fault diagnosis 6.1.2)**	Replace. **(Refer service section 6.3.2)**
	Water tank element blown. **(Refer fault diagnosis 6.1.6)**	Replace. **(Refer service section 6.3.6)**
NO HUMIDITY CONTROL	Faulty thermostat. **(Refer fault diagnosis 6.1.7)**	Replace. **(Refer service section 6.3.4)**

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FAULT	POSSIBLE CAUSE	REMEDY
SLOW RECOVERY	Overloading of product. Door opened unnecessarily. Electrical supply incorrect. Door seals deteriorated. (E85HLD models only) Fan motor faulty. **(Refer fault diagnosis 6.1.3)**	Reduce batch size. Do not open unnecessarily. Check supply voltage is as per rating plate voltage. Inspect and replace. Replace. **(Refer service section 6.3.8)**
NO HEATING / HUMIDITY INDICATOR	Indicator faulty. **(Refer fault diagnosis 6.1.8)**	Replace. **(Refer service section 6.3.1)**
DOOR DOES NOT CLOSE	Tray in way of door. Interference with door. Hinges damaged.	Correctly position tray in rack. Inspect and repair. Replace. **(Refer service section 6.3.10)**
AUTOFILL WATER NOT FILLING (Autofill models only)	Water supply not turned on. Blockage in water supply. Water connection filter blocked. Water solenoid faulty. **(Refer fault diagnosis 6.1.9)** Solenoid relay faulty. **(Refer fault diagnosis 6.1.9)** Water level float switch faulty. **(Refer fault diagnosis 6.1.9)**	Turn water supply on. Disconnect water supply and inspect. Clean filter. Replace. **(Refer service section 6.3.14)** Replace. **(Refer service section 6.3.13)** Replace. **(Refer service section 6.3.15)**
AUTOFILL WATER OVER-FLOWING (Autofill models only)	Water level float switch faulty. **(Refer fault diagnosis 6.1.9)** Solenoid relay faulty. **(Refer fault diagnosis 6.1.9)** Water tank not fitted.	Replace. **(Refer service section 6.3.15)** Replace. **(Refer service section 6.3.13)** Fit water tank.

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6. SERVICE PROCEDURES

⚠ **WARNING: ENSURE POWER SUPPLY IS SWITCHED OFF BEFORE SERVICING.**

⚠ **WARNING: ALL INSTALLATION AND SERVICE REPAIR WORK MUST BE CARRIED OUT BY QUALIFIED PERSONS ONLY.**

SECTION **PAGE NO.**

6.1 FAULT DIAGNOSIS 18

6.1.1 Unit Does Not Operate / Start 18
6.1.2 Proof or Hold Mode Not Working (HLD Models Only) 18
6.1.3 Fan Does Not Operate 18
6.1.4 No Heat 18
6.1.5 No Temperature Control 18
6.1.6 No Humidity 18
6.1.7 No Humidity Control 19
6.1.8 No Heating / Humidity Indicator 19
6.1.9 Autofill Not Filling or Overflowing (Autofill Models Only) 19

6.2 ACCESS 20

6.2.1 Control Panel 20
6.2.2 Right Hand Side Panel 20
6.2.3 Right Hand Rear Service Panel 20
6.2.4 Control Panel (Rear) 20

6.3 REPLACEMENT 21

6.3.1 Indicator Light 21
6.3.2 Power /Function Switch 21
6.3.3 Thermostat 21
6.3.4 Humidity Thermostat 22
6.3.5 Dry Element 22
6.3.6 Wet Element 22
6.3.7 Fan 23
6.3.8 Motor 23
6.3.9 Door 24
6.3.10 Door Hinges 24
6.3.11 Door Seals 24
6.3.12 Thermometer 24
6.3.13 Relay 25
6.3.14 Water Solenoid 25
6.3.15 Float Switch 25

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6.1 FAULT DIAGNOSIS

6.1.1 UNIT DOES NOT OPERATE / START

Incorrect electrical supply

Check that the supply voltage across phase and neutral (L1 and L2) terminals of terminal block is correct as per the voltage stated on the unit's electrical rating plate. If incorrect, check electrical connection of supply cord, and/or check electrical supply.

Power switch on unit faulty (E85 models)

With power supply on check power to terminals P1 and P2 on unit power on/off (I/O) switch. If no power, check electrical supply and wiring.

If power to P1 and P2, turn power switch to on (I) and check power is switched through to terminals 1 and 2. If either 1 or 2 terminals have no power, switch is faulty—replace. If checks are ok and unit still does not operate, check unit's wiring and/or re-diagnose exact fault with unit and refer to trouble-shooting guide.

Function switch on unit faulty (E85HLD models)

With power supply on, check power to terminals P3 and P4 of unit's function switch. If no power, check electrical supply and wiring.

If power to P3 and P4, turn function switch to PROOF position and check power is switched through to terminals 3 and 4 on function switch. If either 3 or 4 have no power then switch is faulty—replace.

If checks are ok and the unit still does not operate, check the unit's wiring and/or re-diagnose exact fault with unit and refer to trouble-shooting guide.

6.1.3 PROOF OR HOLD MODE NOT WORKING (E85HLD MODELS ONLY)

Power / function selector switch faulty

Check function switch as per 6.1.1 first to ensure power switching of switch works. Follow by:-

PROOF position function test

With function switch in PROOF position check terminals P3, 3, P4, 4 and P2 have power with thermostat set to maximum position.

Check terminal 2 has no power. If power at terminal 2 then switch is faulty—replace.

If power checks are ok, but PROOF mode not working, review fault diagnosis procedure and trouble-shooting guide for further assistance.

HOLD position function test

With function switch in HOLD position check terminals P3, P4, 4, P2 and 2 have power with thermostat set to maximum position.

Check terminal 3 has no power. If power at terminal 3 then switch is faulty—replace.

If power checks are ok, but HOLD mode not working, review fault diagnosis procedure and trouble-shooting guide for further assistance.

6.1.3 FAN DOES NOT OPERATE

Fan motor faulty

Check the supply voltage across motor terminals. If there is no voltage with function switch on then check the electrical connections of supply wiring.

If voltage is correct then check the oven fan for free rotation. Remove any obstruction.

If fan is free to spin and the voltage supply is correct, then the motor is faulty—replace.

6.1.4 NO HEAT

Thermostat faulty

With cold proofer, set thermostat to 40°C / 105°F. Check power to terminal 1 of top thermostat. If there is no power then check wiring.

Check power at terminal 2. If there is no power then the thermostat is faulty - replace.

Element blown

With thermostat on and heating check voltage across dry element terminals. If there is no voltage check wiring. If voltage is correct, element is faulty - replace.

6.1.5 NO TEMPERATURE CONTROL

Thermostat faulty

With thermostat in off position (fully counter-clockwise), the heating indicator should be off. If not, then the thermostat is faulty - replace.

6.1.6 NO HUMIDITY

Humidity thermostat faulty

With cold proofer, set humidity to 'HI'. Check power to terminal 1 of bottom thermostat. If there is no voltage then check wiring.

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Check power at terminal 2. If there is no power then the thermostat is faulty - replace.

Element blown

With humidity thermostat on and heating check voltage across wet element terminals. If there is no voltage check wiring. If voltage is correct, element is faulty - replace.

6.1.7 NO HUMIDITY CONTROL

Humidity thermostat faulty

Switch the proofer on and set the humidity to 'LO'. Check that the humidity thermostat cycles on / off, and using a suitable probe measure the temperature of the water in the trough. The water temperature should be 50° C/120°F ± 10%. If the temperature continues to rise above this then the humidity thermostat is faulty - replace.

6.1.8 NO HEATING / HUMIDITY INDICATOR

Indicator faulty

Check voltage across indicator terminals with controls on and appropriate thermostat turned on fully. If the voltage is correct and indicator is not illuminated then the indicator is faulty - replace. If there is no voltage then check wiring.

6.1.9 AUTOFILL NOT FILLING OR OVER-FLOWING (AUTOFILL MODELS)

Water solenoid faulty

Empty water tank so float switch is in lowest position. With power ON check voltage across water solenoid coil terminals. If voltage is correct (refer electrical rating plate) but solenoid is not operating, disconnect electrical supply and remove wire connections from solenoid. Check solenoid coil windings resistance.

Correct coil resistance:

220-240 volt models	3650 ohms
110-120 volt models	1100 ohms

NOTE: If open circuit/high resistance, then the coil is faulty– replace.

If coil is correct, rewire and listen for audible solenoid click when power is supplied. If solenoid can be heard functioning and water supply is turned on but no water is entering tank, remove water solenoid and fittings and check for blockages.

Solenoid relay faulty

The water solenoid valve has a 2 pole change over relay switching the solenoid valve on/off as required to maintain water supply to the water tank. The relay has power supplied to its coil (terminal 8) from the float switch when the float switch is in the water FULL position.

In other words, the relay is energised when the water tank is full. In this state the relay switches power off the solenoid valve. When the water level lowers the float switch open circuits and power is removed from the relay coil. This switches the relay contacts to the normally closed position which then supplies power through to the solenoid valve to supply water. Check correct solenoid operation as follows.

With power supply on and POWER or FUNCTION switch on unit on, check relay terminals no 6 and 5 have power. If not check wiring. With water tank empty the relay coil should have no power. Check voltage across terminals 7 and 8. If coil is energised and water tank is empty check float switch for possible fault, refer below.

With no power to relay coil, the relay contacts should be in the normally closed position, and power should be on terminals 1 and 2, one of which is wired to the solenoid. If no power at 1 and 2 with relay de-energised check wiring. If ok relay is faulty—replace.

Check relay contact terminal nos 3 and 4 when relay is energised. Either fill water tank with water, or hold float switch up in fully raised position. With float switch in this position power from relay terminals 5 and 6 should be supplied to coil terminal 8 on relay through float switch. If not then float switch has a possible fault, refer below.

Water level float switch faulty

The water tank float switch is mounted at the rear of the water tank inside the cabinet. With the water level full (float switch raised) the float switch should be closed circuit to energise the water solenoid relay and remove power from the water solenoid. With the water level down (below full and float switch dropped), the float switch should be open circuit to de-energise the relay, which will then switch power to the water solenoid through its normally closed contacts.

To check correct operation of float switch remove the float switch wire connections from terminal 8 and terminal 5 on relay. Check switch continuity and wire ends. With full water tank float switch should be closed circuit. With empty water tank float switch should be open circuit. If not, float switch is faulty—replace.

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6.2 ACCESS

6.2.1 CONTROL PANEL

1) Pull off the power knob.
2) Undo the screw holding the control panel.

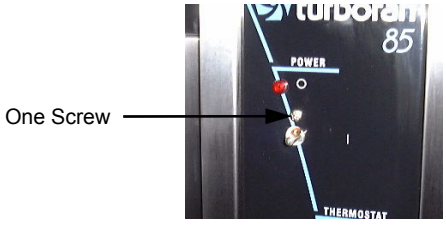

Figure 6.2.1

3) Panel is now free to hinge at bottom. When closing the panel ensure wires and capillary tube are clear of metal or other terminals.

6.2.2 RH SIDE PANEL

1) Undo the four screws holding the panel in place.
2) Lift the panel out.

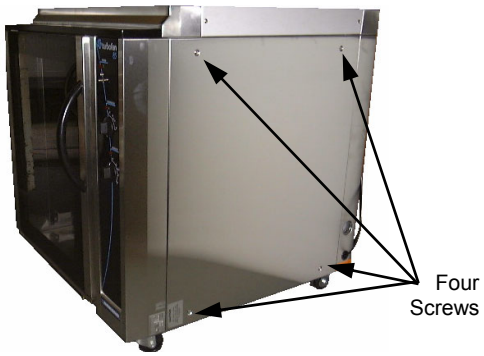

Figure 6.2.2

6.2.3 RH REAR SERVICE PANEL

1) Remove RH side Panel (refer 6.2.2).
2) Remove water inlet elbow.
3) Undo three screws holding panel in place.
4) Lift the panel out.

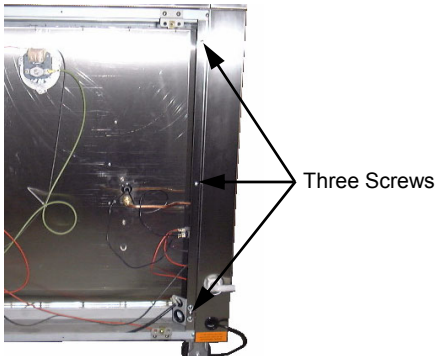

Figure 6.2.3

6.2.4 CONTROL PANEL—REAR (E85)

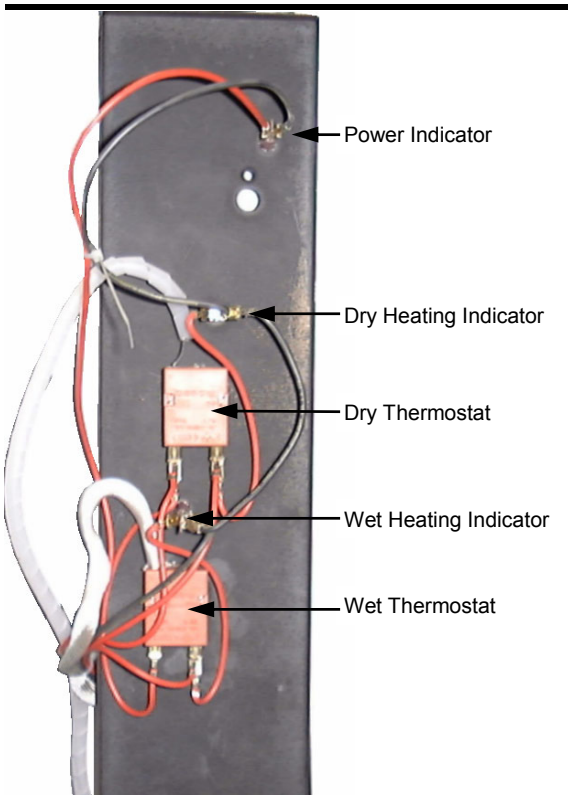

Figure 6.2.4

6.2.5 CONTROL PANEL—REAR (E85-HLD)

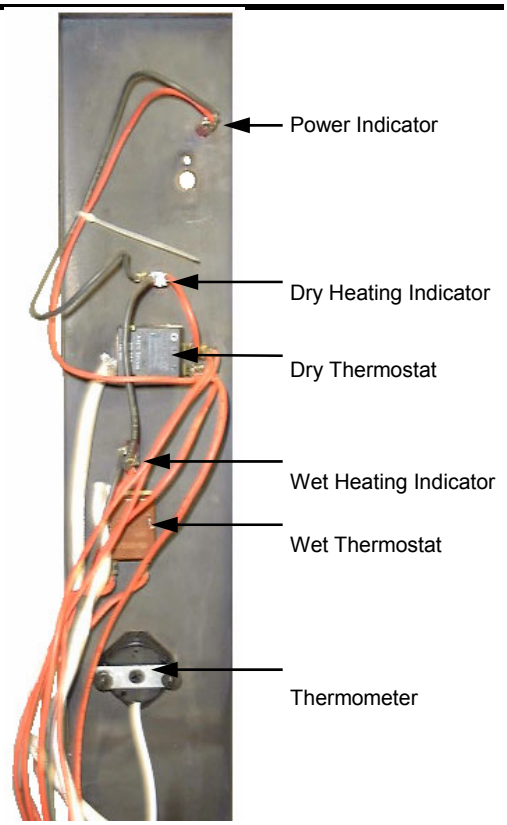

Figure 6.2.5

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6.3 REPLACEMENT

6.3.1 INDICATOR LIGHT

1) With control panel open (refer 6.2.1) remove the wires from the back of the neon.

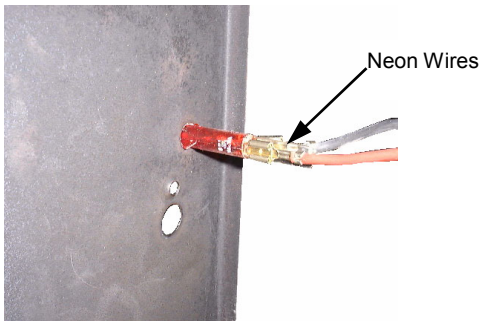

Figure 6.3.1

2) From back push neon through front of panel rotating clockwise.
3) Push new neon in from front of panel, and reconnect wires.

6.3.2 POWER / FUNCTION SWITCH

1) With control panel open (refer 6.2.1) remove the two screws securing the switch to the bracket and remove.

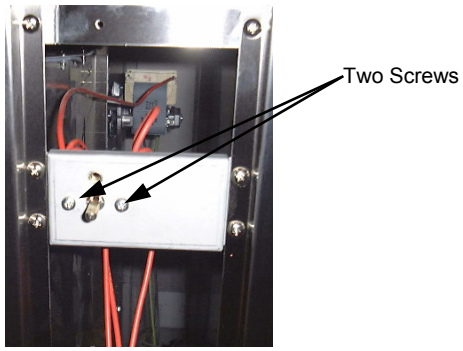

Figure 6.3.2

2) Mount new switch and transfer wires from the old switch.

6.3.3 THERMOSTAT

1) Pull knob off front of thermostat.
2) Open control panel (refer 6.2.1).
3) With door open, remove right hand side rack. Undo thermostat support bracket screw and remove bracket.

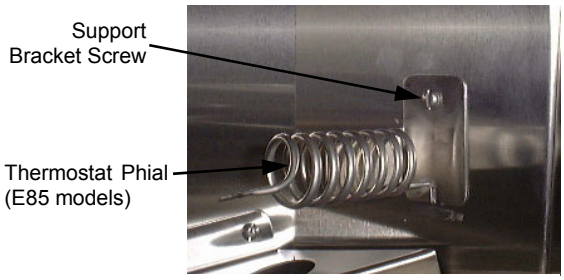

Figure 6.3.3

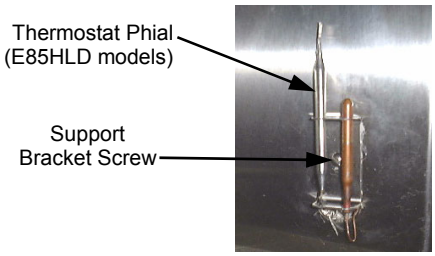

Figure 6.3.4

4) Withdraw old thermostat phial through hole under bracket in side of proofer.
5) Remove sleeving from old thermostat and fit to replacement thermostat.

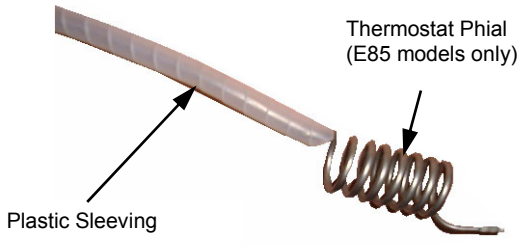

Figure 6.3.5

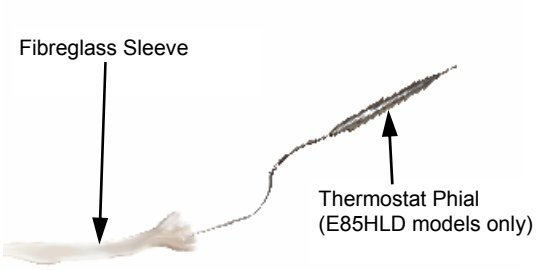

Figure 6.3.6

6) Undo two screws securing thermostat to control panel and remove.

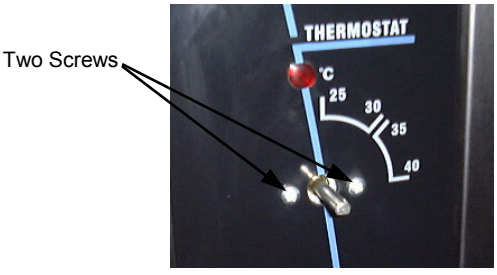

Figure 6.3.7

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7) Attach new thermostat to control panel and transfer wires to new thermostat.

8) Re-assemble in reverse order.

6.3.4 HUMIDITY THERMOSTAT

1) Pull knob off front of thermostat

2) Open control panel (refer 6.2.1).

3) With door open, remove right hand side rack and water trough. Undo thermostat support bracket screw and remove bracket. Remove clip holding capillary to element.

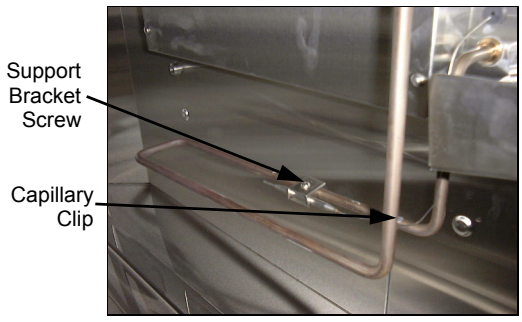

Figure 6.3.8

4) Remove rubber bush in side wall, withdraw old thermostat phial through side of proofer.

5) Remove fibreglass sleeving from old thermostat and fit to replacement thermostat.

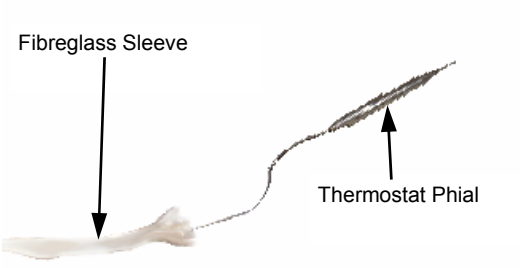

Figure 6.3.9

6) Undo two screws securing thermostat to control panel and remove.

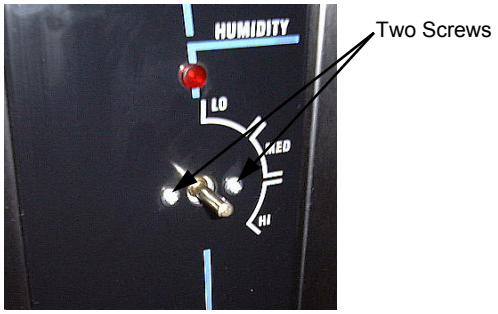

Figure 6.3.10

7) Attach new thermostat to control panel, and transfer wires to new thermostat.

8) Re-assemble in reverse order.

6.3.5 DRY ELEMENT

1) Remove RH side panel (refer 6.2.2), remove wires from (rear) element terminals, noting position.

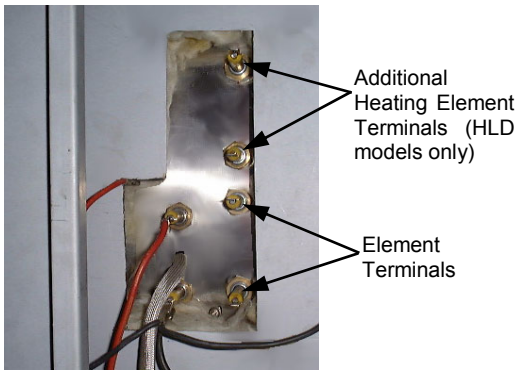

Figure 6.3.11

2) With door open, remove right hand side rack.

3) Undo the four screws holding the fan baffle and remove baffle.

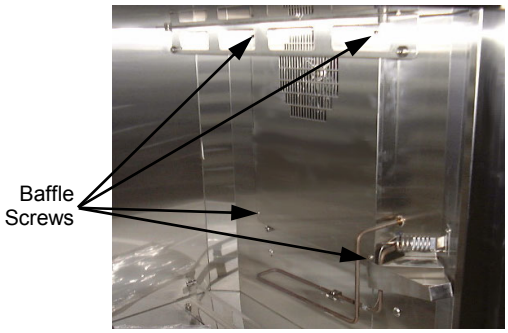

Figure 6.3.12

4) Unscrew the element from RH side (outside) of proofer. Pull element carefully to remove from inside of proofer.

5) Replace and re-assemble in reverse order.

Dry Element Ratings

110-120volt bottom (All models)	15.5 ohms
110-120 volt top (HLD models only)	20.1 ohms
220 - 240 Volt	73 ohms.

6.3.6 WET ELEMENT

1) Remove RH side panel (refer 6.2.2), and remove wires from (rear) element terminals.

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2) With door open, remove right hand side rack and water tank.

3) Remove thermostat support bracket screw (on element) and remove bracket.

4) Remove clip securing thermostat capillary to element.

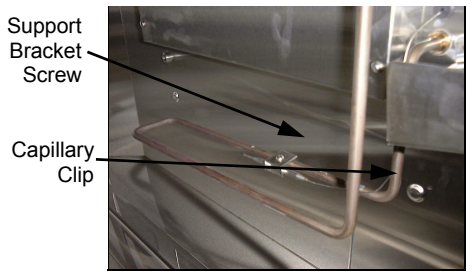

Figure 6.3.13

5) Unscrew the element from RH side (outside) of proofer.

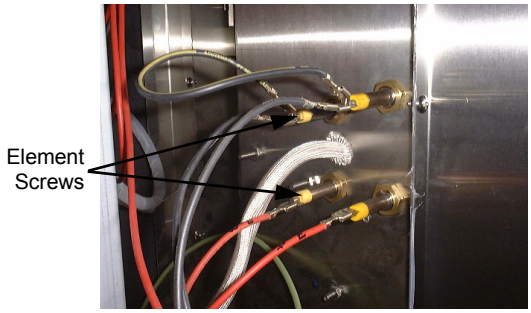

Figure 6.3.14

6) Pull element carefully into proofer to remove.

7) Replace and reassemble in reverse order.

Wet Element Ratings

110 - 120 Volt	15.5 ohms
220 - 240 Volt	73.1 ohms

6.3.7 FAN

1) With the door open, remove the right hand side rack.

2) Undo the four screws holding the fan baffle and remove the baffle.

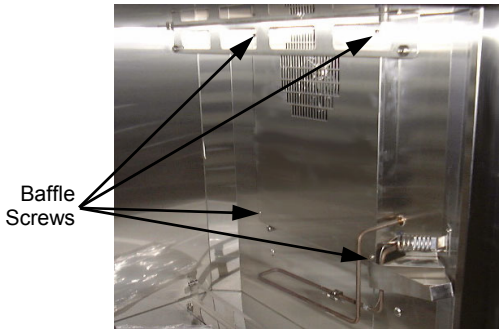

Figure 6.3.15

3) Whilst holding the fan blades, undo the nut in the centre of the fan (LH thread) and remove the fan.

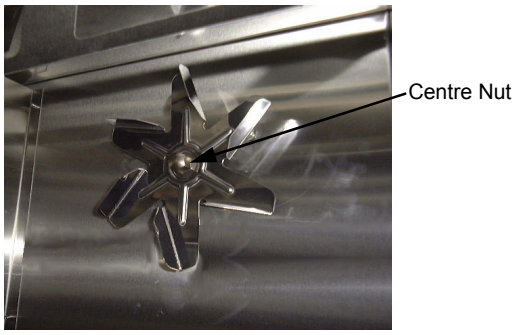

Figure 6.3.16

4) Replace and reassemble in reverse order.

6.3.8 MOTOR

1) Remove fan (refer 6.3.8).

2) Remove RH side panel (refer 6.2.2)

3) Remove wires from fan motor, noting their positions.

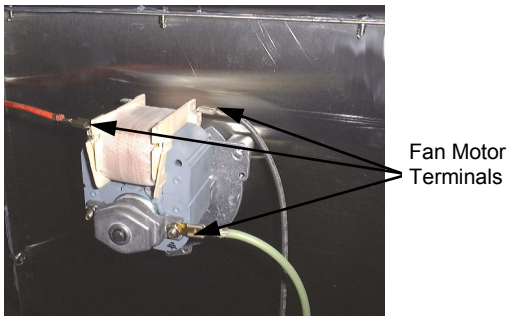

Figure 6.3.17

4) Remove three screws from inside proofer securing motor and remove from outside.

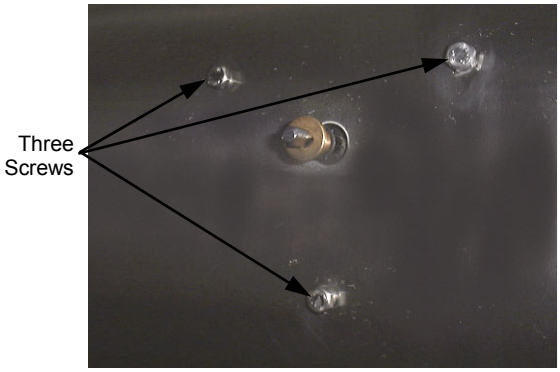

Figure 6.3.18

5) Replace and reassemble in reverse order.

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6.3.9 DOOR

1) Open prover door.
2) Lift door vertically off hinges.
3) Remove door handle (two screws).

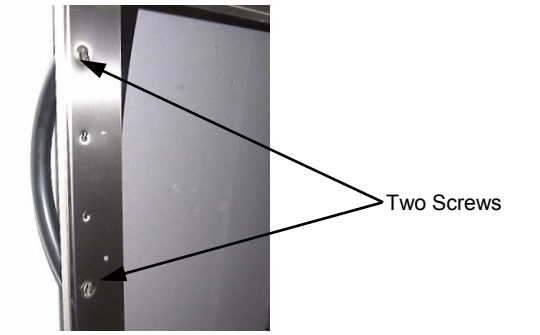

Figure 6.3.19

4) Drill out rivets securing hinges to old door frame (two per hinge).

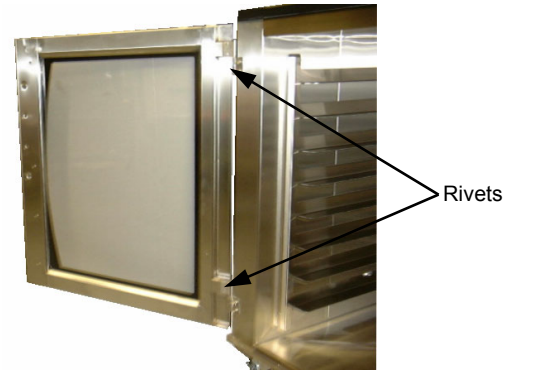

Figure 6.3.20

5) Secure door handle and catch plate to new door.
6) Rivet hinges to new door frame.
7) Re-hang door on E85 proofer.

6.3.10 DOOR HINGES

1) Open prover door.
2) Lift door vertically off hinges.
3) Drill out rivets securing hinges to door and screws securing hinges to E85 proofer, and remove hinges.

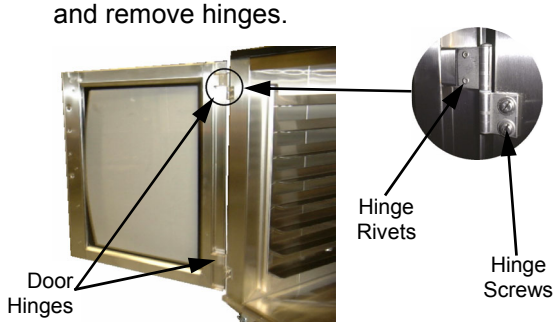

Figure 6.3.21

4) Rivet new hinges to door and secure to E85 proofer with screws.
5) Re-hang door on proofer.

6.3.11 DOOR SEALS - HLD MODELS ONLY

1) Open prover door.
2) Undo and remove 16 screws securing door seal retaining strips to door.

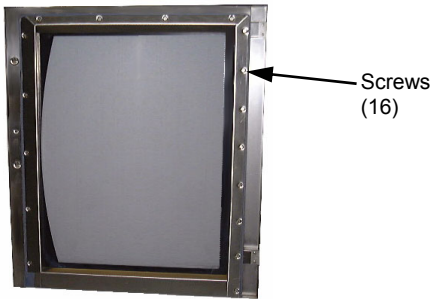

Figure 6.3.22

3) Remove the door seal, replace, and re-assemble in reverse order.

6.3.12 THERMOMETER - HLD MODELS

1) Open control panel (refer 6.2.1)
2) With door open, remove right hand side rack (Lift off supports, and remove).
3) Undo thermometer support bracket screw and remove bracket.

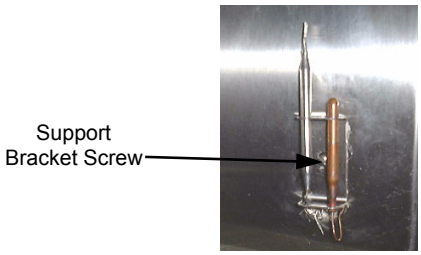

Figure 6.3.23

4) Withdraw old thermometer phial through hole under bracket in side of cabinet.
5) Undo 2 nuts securing thermometer to control panel and remove.

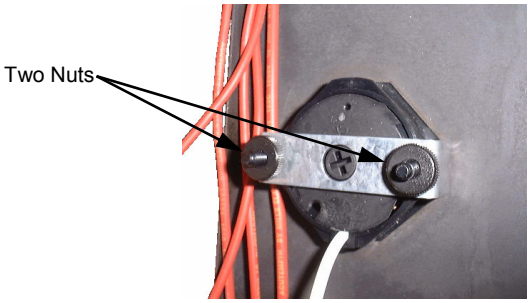

Figure 6.3.24

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6) Attach new thermometer to control panel and transfer wires to new thermometer.

7) Insert new thermometer phial through cabinet side and re-attach bracket.

6.3.13 RELAY - AUTOFILL MODELS ONLY

1) Remove RH side panel (refer 6.2.2).

2) Remove two screws securing relay to bracket.

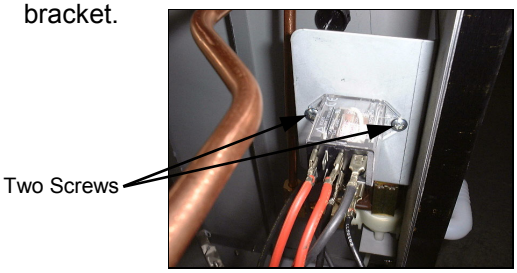

Figure 6.3.25

3) Secure new relay to bracket.

4) Transfer wires from old relay to new relay.

5) Replace RH side panel.

6.3.14 WATER SOLENOID - AUTOFILL MODELS ONLY

1) Remove RH side panel (refer 6.2.2) and RH rear service panel (refer 6.2.3).

2) Remove wires from solenoid, noting their positions.

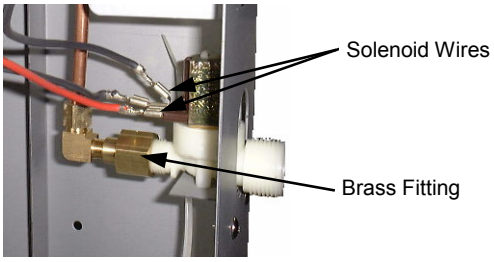

Figure 6.3.26

3) Remove brass fitting from solenoid (refer figure 6.3.23).

4) Remove two screws securing solenoid to proofer, and withdraw solenoid assembly.

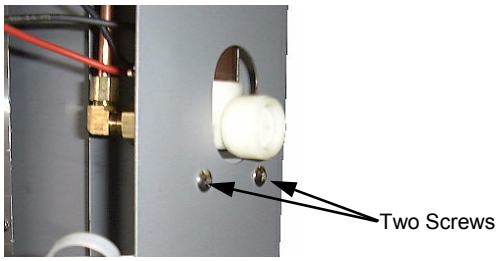

Figure 6.3.27

5) Remove two screws securing solenoid to bracket, and remove the water solenoid.

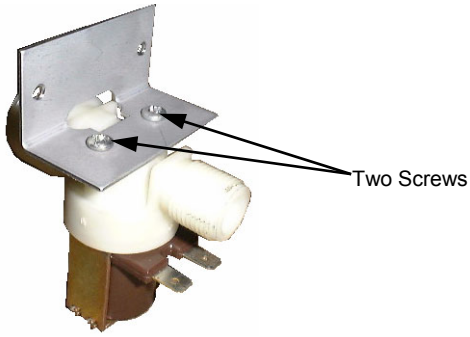

Figure 6.3.28

6) Secure new solenoid with screws, and re-assemble in reverse order.

6.3.15 FLOAT SWITCH - AUTOFILL MODELS ONLY

1) Remove RH side panel (refer 6.2.2).

2) Remove float switch wires from relay, noting their positions.

3) Remove brass fitting from rear of float switch.

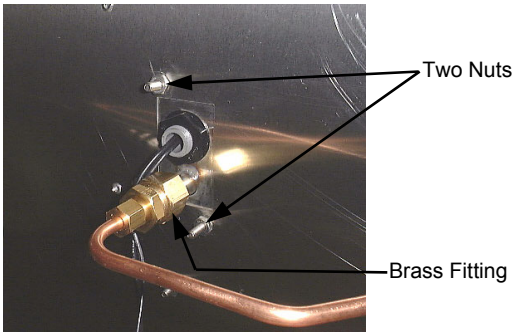

Figure 6.3.29

4) Remove RH side rack and water trough from inside proofer.

5) Undo two nuts from outside cabinet, and two screws inside cabinet securing float switch bracket to proofer. (Refer figure 6.3.28).

6) Remove float switch assembly from proofer.

NOTE: The float switch bracket has been silicone sealed, so it may therefore be necessary to cut around the bracket with a sharp knife to assist with removal. Clean off all remaining silicone.

7) Remove the float switch sleeve, and undo the nut securing the float switch to the bracket.

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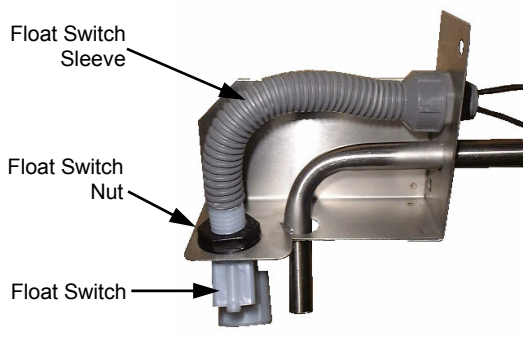

Figure 6.3.30

8) Remove the float switch from the bracket, replace, and reassemble in reverse order.

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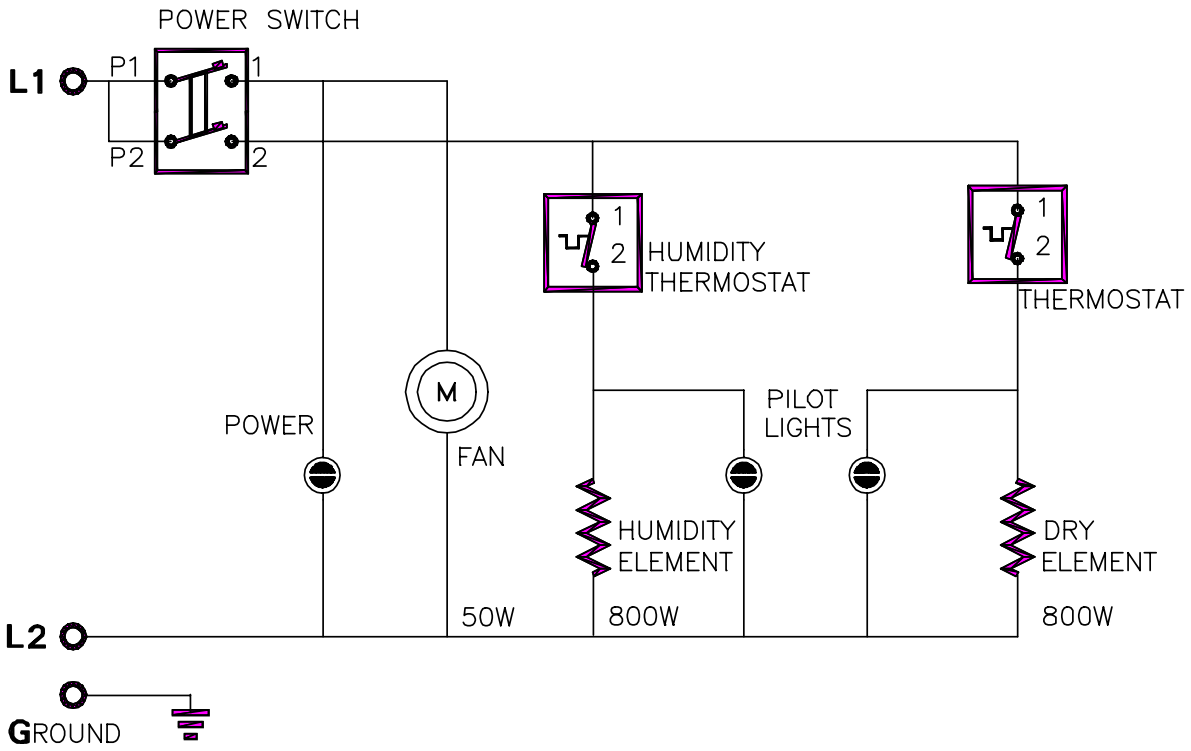
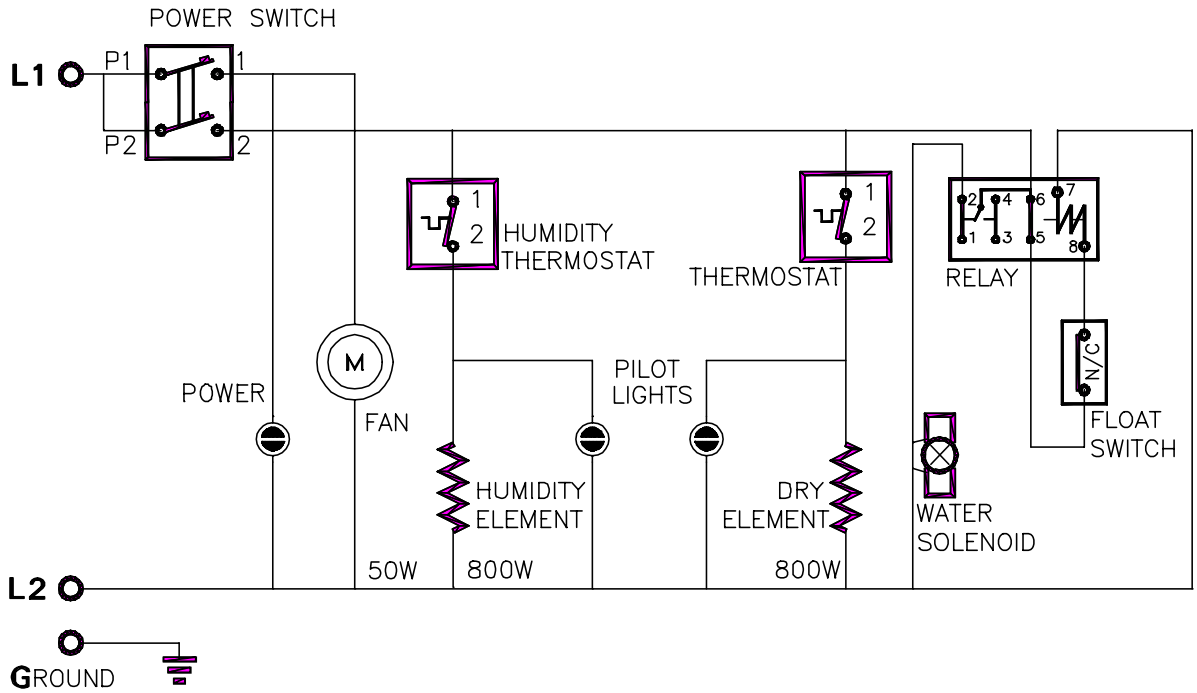
7. ELECTRICAL CIRCUIT SCHEMATIC

7.1 E85 Manual Water Fill Prover Cabinet



7.2 E85A Auto Water Fill Prover Cabinet



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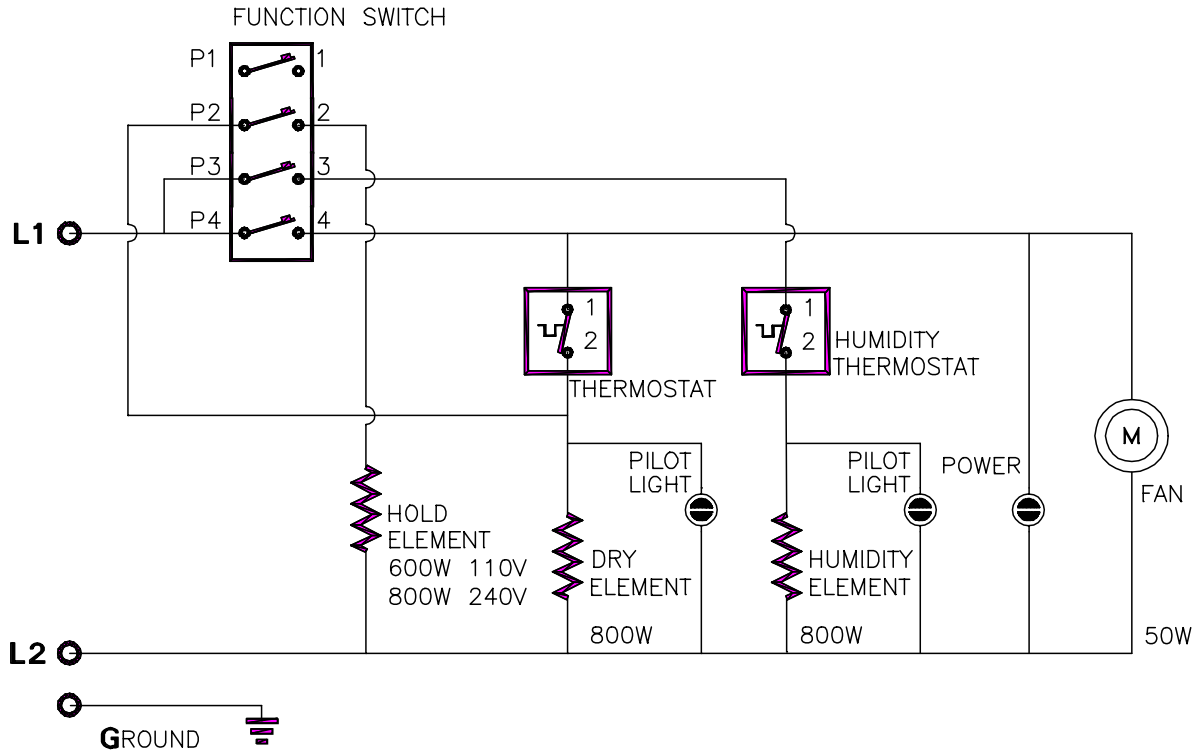
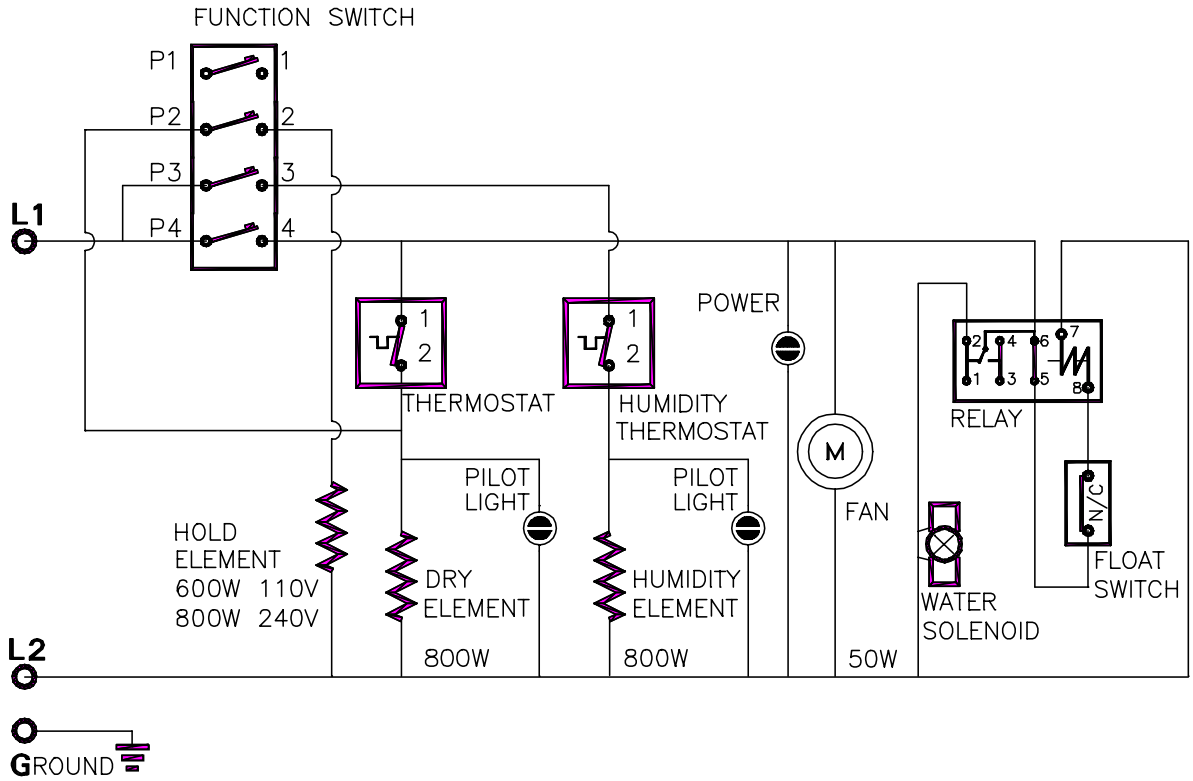
7.3 E85-HLD Manual Water Fill Prover/Holding Cabinet



7.4 E85A-HLD Auto Water Fill Prover/Holding Cabinet



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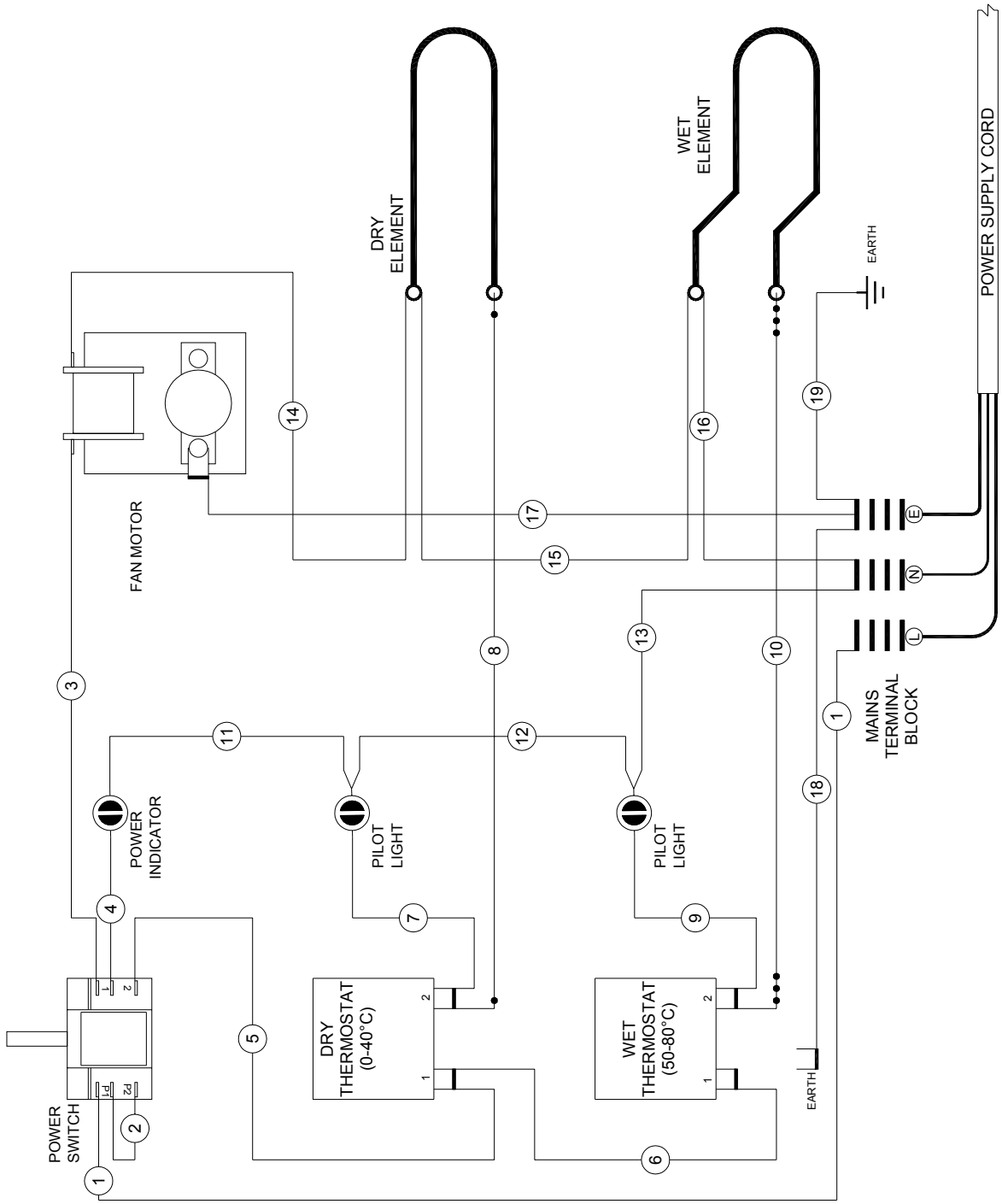
8. ELECTRICAL WIRING DIAGRAM

8.1 E85 Manual Water Fill Prover Cabinet



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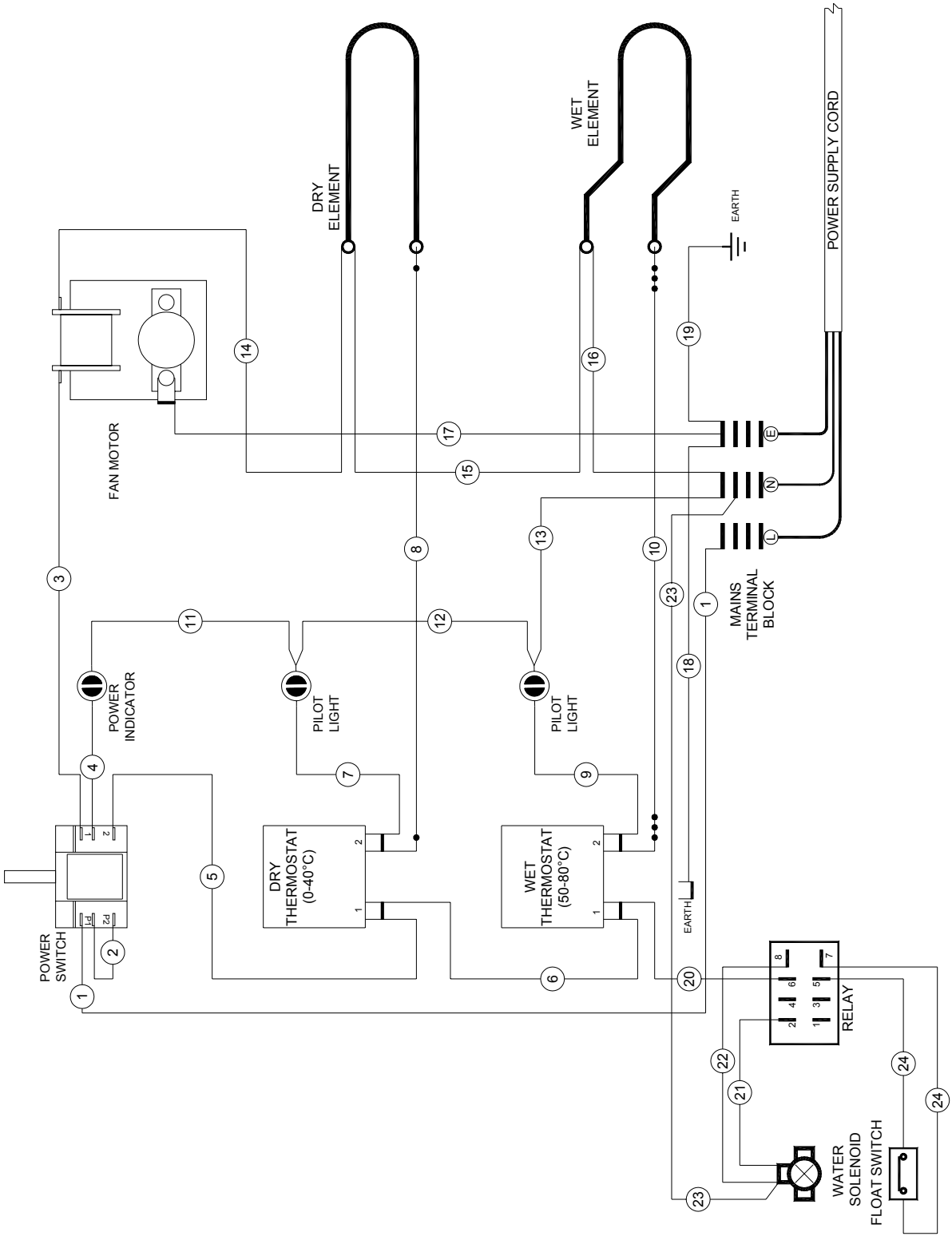
8.2 E85A Auto Water Fill Prover Cabinet



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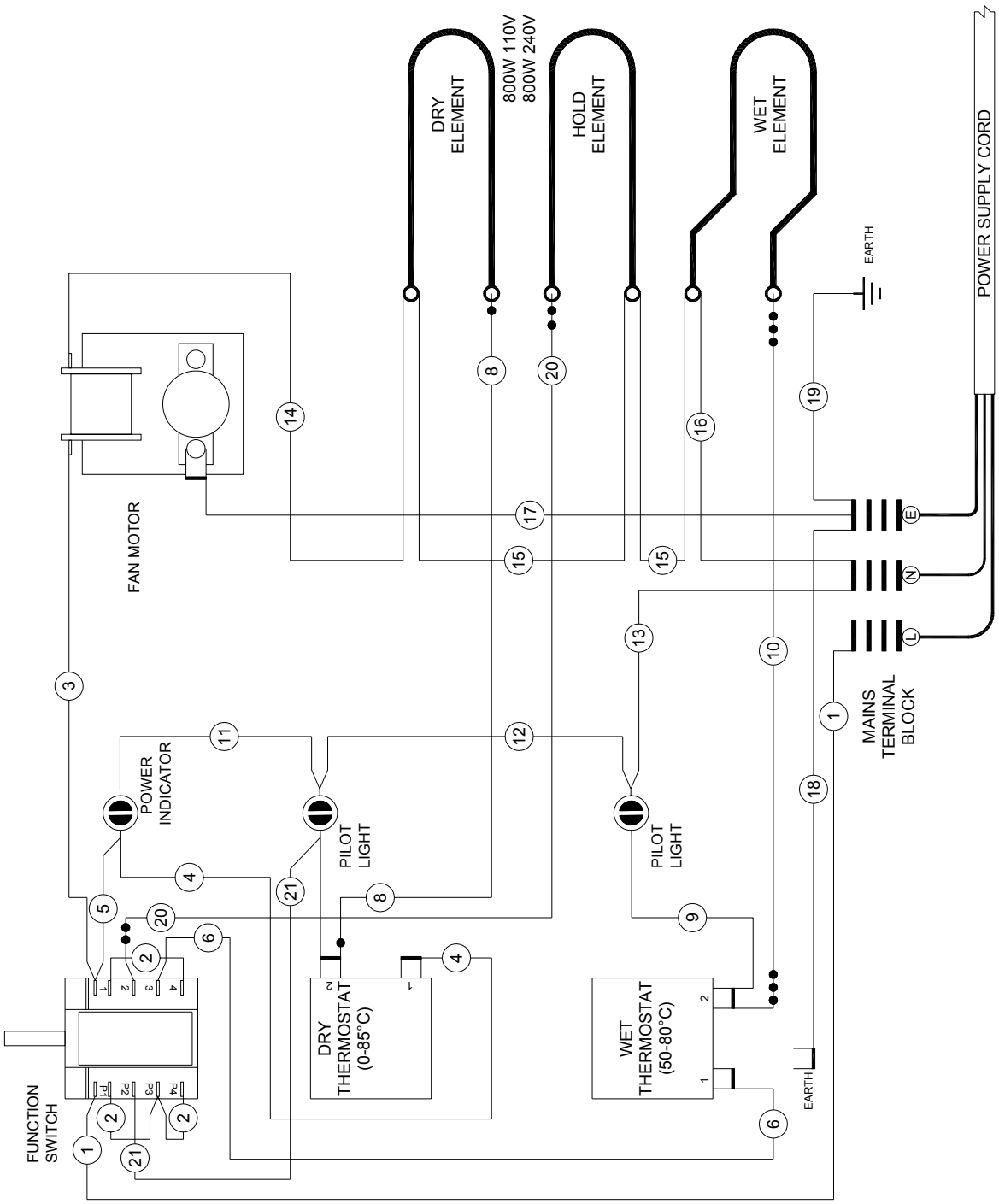
8.3 E85-HLD Manual Water Fill Prover/Holding Cabinet



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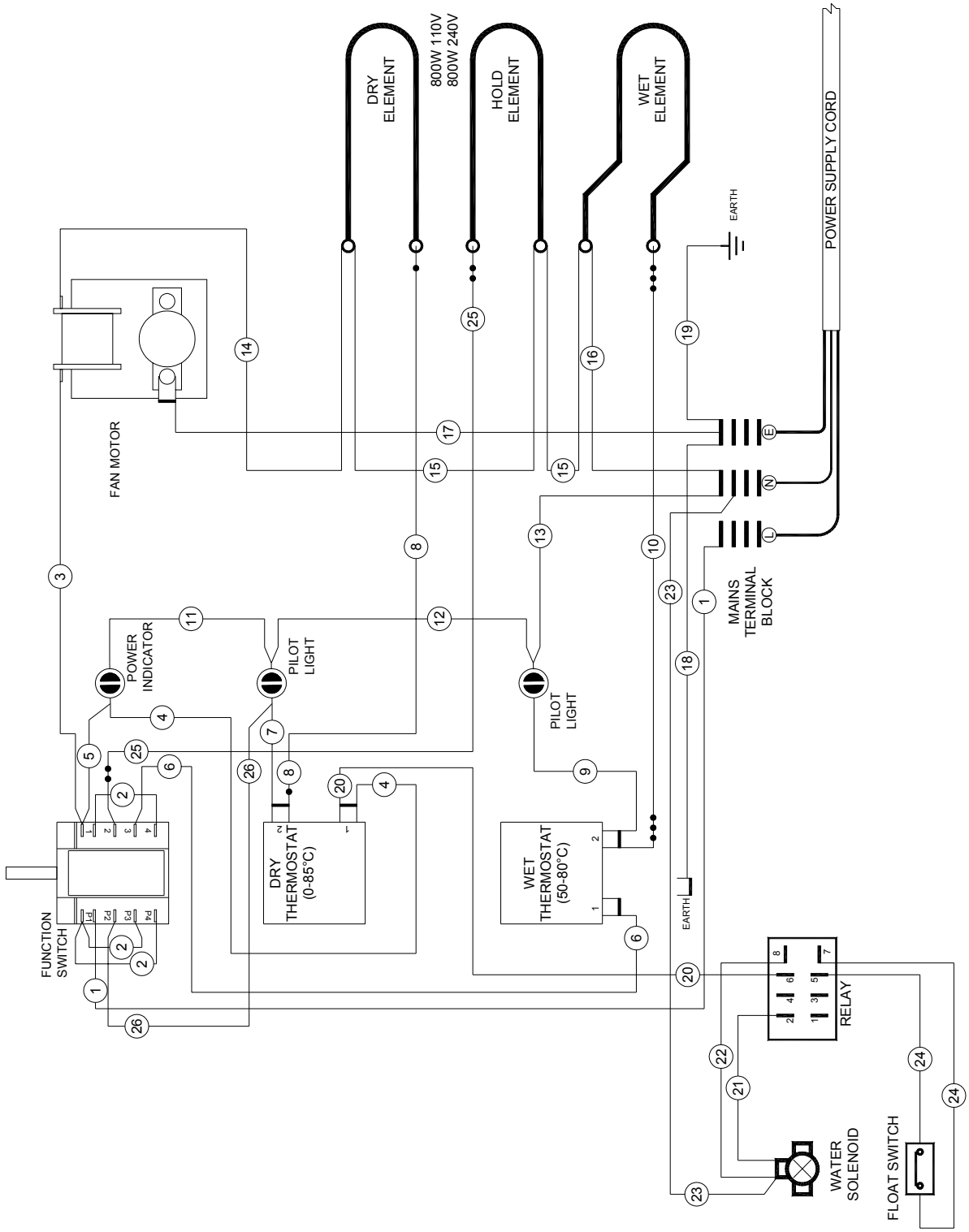
8.4 E85A-HLD Auto Water Fill Prover/Holding Cabinet



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9. SPARE PARTS

PART NO	DESCRIPTION
CONTROLS	
020822	Switch - Power (Non HLD only)
022789	Switch - Function (HLD only)
020823	Knob - Power / Function
014233	Thermostat (Temperature) (Non HLD only)
022787	Thermostat (Temperature) (HLD only)
020823	Knob - Thermostat
015485	Thermostat (Humidity)
021472	Knob - Humidity Thermostat
020849	Neon Indicator
022788	Thermometer (HLD only)
AUTO FILL OPTION	
020851	Solenoid Valve (220-240V)
021617	Solenoid Valve (110V)
021534	Relay (220-240V)
021535	Relay (110V)
022250	Float Switch
022294	Auto Fill Upgrade Kit (240V)
022300	Auto Fill Upgrade Kit (110V)
MOTOR & ELEMENTS	
022042	Fan
013431	Motor (220-240V)
025387	Motor (110V)
021694	Dry Element 800W (220-240V)
021693	Bottom Dry Element 800W (110V)
022774	Top Dry Element 600W (110V HLD only)
021696	Wet Element (220-240V)
021695	Wet Element (110V)
DOOR	
021434	Door Assembly - 8 tray (Non HLD only)
022768	Door Assembly - 8 tray (HLD only)
021436	Door Assembly - 12 tray (Non HLD only)
022769	Door Assembly - 12 tray (HLD only)
021468	Handle
021663	Hinge
018947	Magnetic Catch
022758	Chrome Catch Plate (HLD only)
022989	Door Seal - 8 Tray (HLD only)
022990	Door Seal - 12 Tray (HLD only)
RACKS	
021416	Side Rack - 8 tray
021417	Side Rack - 12 tray

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10. ACCESSORIES

DOUBLE STACKING KIT (PART NO 22299)
- For use with E35 convection ovens

6" LEG OPTION (PART NO 18724 x4)

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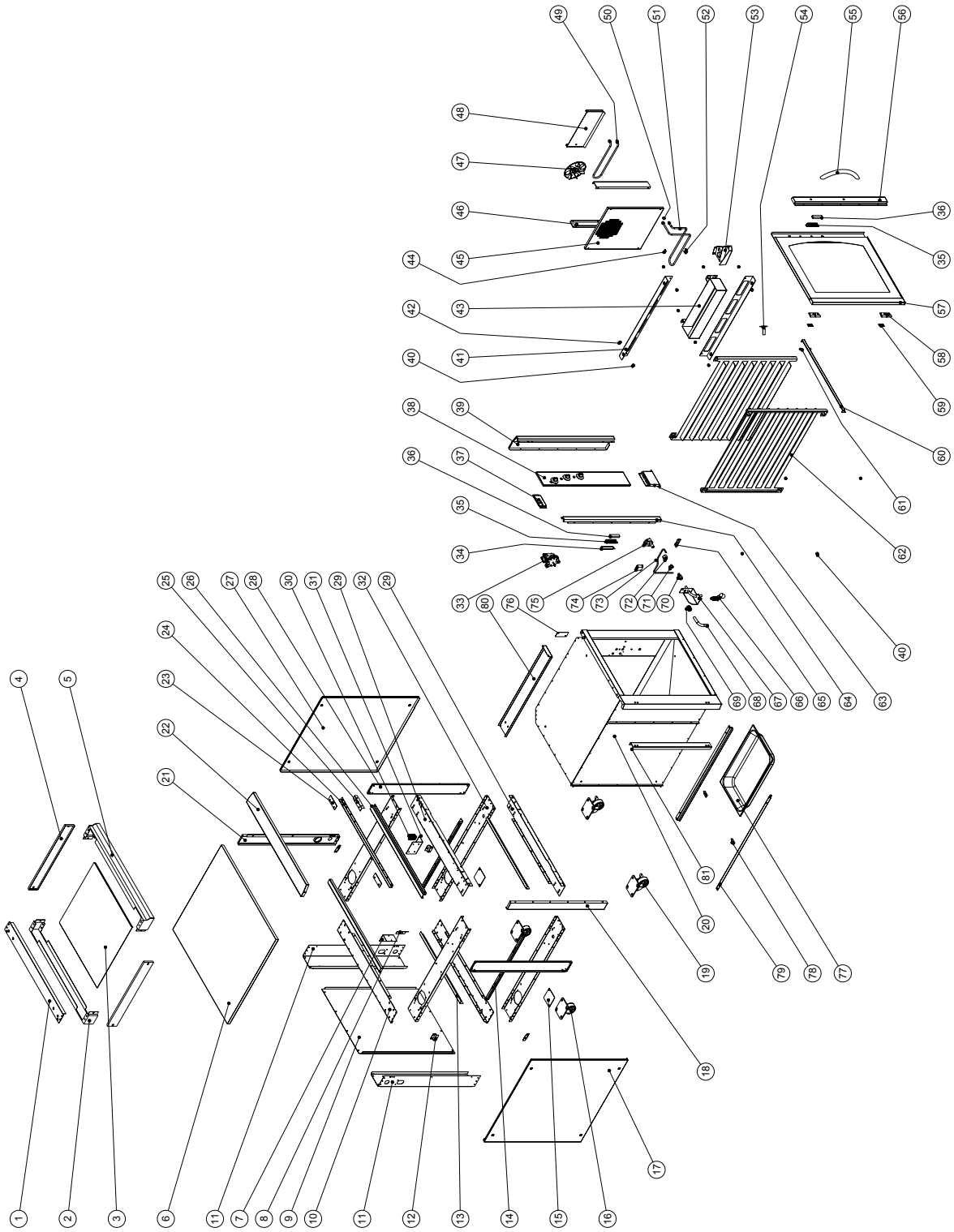
11. PARTS DIAGRAMS

11.1 MAIN ASSEMBLY (Non HLD only)



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Pos	Part No.	Description
1	021438	SUPPORT PLATE **(STACKED UNIT)**
2	020972	STACKING BACK **(STACKED UNIT)**
3	020794	BASE COVER SHEET **(STACKED UNIT)**
4	020968	STACKING SIDE **(STACKED UNIT)**
5	021137	STACKING FRONT **(STACKED UNIT)**
6	021439	TOP COVER **(STAND ALONE UNIT)**
7	022254	RELAY MOUNTING BRACKET **(AUTO-FILL ONLY)**
8	020895	CABLE GUIDE BRACKET
	019239	SNAP BUSH ø19mm **(NOT SHOWN)**
	022455	CABLE GLAND GN16 **(NOT SHOWN)**
9	020791	BACK PANEL **(E85-8)**
	021430	BACK PANEL **(E85-12)**
10	020781	CHASSIS HORIZONTAL
11	020782	CHASSIS VERTICAL REAR **(E85-8)**
	021428	CHASSIS VERTICAL REAR **(E85-12)**
12	020785	PANEL MOUNTING BRACKET
13	021657	LINER SUPPORT
14	021673	LINER SIDE SUPPORT
15	020899	BLANKING PLATE
16	021668	CASTOR 3" RIGID
17	020787	SIDE PANEL LH **(E85-8)**
	021431	SIDE PANEL LH **(E85-12)**
18	021665	FRONT UPRIGHT LH **(E85-8)**
	021424	FRONT UPRIGHT LH **(E85-12)**
19	021664	CASTOR 3" SWIVEL BRAKE
	018723	FOOT MOUNTING PLATE **(OPTIONAL EXTRA)**
	018724	6" FOOT - ADJUSTABLE **(OPTIONAL EXTRA)**
20	021811	LINER ASSEMBLY **(E85-8)**
	021812	LINER ASSEMBLY **(E85-12)**
21	020792	SERVICE ENTRY PANEL **(E85-8)**
	021433	SERVICE ENTRY PANEL **(E85-12)**
	019213	SNAP BUSH ø31.5 **(NOT SHOWN)**
22	004773	TOP CAP WA ENAMELLED
23	021672	CAP RETAINING PLATE
24	021656	CHASSIS TOP STIFFENER
25	021659	RH UPRIGHT MTG BRACKET
26	022303	COVER SUPPORT **(OPTIONAL EXTRA FOR STAND ALONE UNIT)**
27	021661	SIDE PANEL RH **(E85-8)**
	021432	SIDE PANEL RH **(E85-12)**
28	021645	CHASSIS VERTICAL FRONT **(E85-8)**
	021429	CHASSIS VERTICAL FRONT **(E85-12)**
29	024335	FRONT HORIZONTAL BRACE **(FROM S/N 217977)**
	021652	CHASSIS HORIZONTAL FRONT **(TO S/N 217976)**
30	013586	TERMINAL BLOCK
31	025711	TERMINAL BLOCK MTG BRACKET **(FROM S/N 261590)**
	021666	TERMINAL BLOCK MTG BRACKET **(TO S/N 261589)**
32	020786	CHASSIS HORIZONTAL SIDE
33	025387	FAN MOTOR 110V
	013431	FAN MOTOR 240V
34	021809	MAGNET MOUNTING BRACKET
35	021692	KEEPER BRACKET PLATED
36	021667	MAGNET
37	020834	CONTROL PANEL MTG BRACKET
38		CONTROL PANEL **(REFER SECTION 11.3)**
39	021649	FRONT UPRIGHT RH **(E85-8)**
	021425	FRONT UPRIGHT RH **(E85-12)**
40	014725	HANGER STUD

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41	021679	RACK MOUNTING BRACKET
	021698	SECURING SCREW **(NOT ILLUSTRATED)**
42	021691	HANGER STUD
43	021800	WATER TANK WA
44	012272	CAPILLARY PLATE
45	021642	BAFFLE **(E85-8)**
	021654	BAFFLE **(E85-12)**
46	021643	BAFFLE MOUNTING CHANNEL **(E85-8)**
	021653	BAFFLE MOUNTING CHANNEL **(E85-12)**
47	022042	FAN
48	021644	HEAT SHIELD
49	021693	DRY ELEMENT 110V
	021694	DRY ELEMENT 240V
	015292	SEALING WASHER
50	015596	CAPILLARY BUNG
51	021695	WET ELEMENT 110V
	021696	WET ELEMENT 240V
	015292	SEALING WASHER
52	012271	CAPILLARY BRACKET
53	021814	WATER TANK FILL SPOUT **(EXCEPT AUTO-FILL)**
54	015249	CAPILLARY BRACKET
55	021468	HANDLE
56	021684	TRIM RH **(E85-8)**
	021685	TRIM RH **(E85-12)**
57	021434	DOOR ASSEMBLY **(E85-8)**
	021436	DOOR ASSEMBLY **(E85-12)**
58	021663	DOOR HINGE - DRILLED
59	022069	DOOR HINGE SHIM
60	021810	WATER TROUGH WA
61	021697	DRAIN BUNG 10mm **(EXCEPT AUTO-FILL)**
62	021416	RACK WA **(E85-8)**
	021417	RACK WA **(E85-12)**
63	021414	CONTROL PANEL BRACKET
64	021650	CONTROL PANEL TRIM LH **(E85-8)**
	021427	CONTROL PANEL TRIM LH **(E85-12)**
65	020991	SOLENOID MOUNTING BRACKET **(AUTO-FILL ONLY)**
66	022250	FLOAT SWITCH **(AUTO-FILL ONLY)**
67	022097	SENSOR BRACKET **(AUTO-FILL ONLY)**
68	022252	FLOAT SWITCH SLEEVE **(AUTO-FILL ONLY)**
69	022253	BETAFLEX ADAPTOR **(AUTO-FILL ONLY)**
70	022998	REDUCING SOCKET – 3/8” X 1/8” **(AUTO-FILL ONLY)**
71	022251	1/2"x1/4" REDUCING UNION **(AUTO-FILL ONLY)**
72	022101	WATER TUBE **(AUTO-FILL ONLY)**
73	021534	RELAY- LY1F- 240v **(AUTO-FILL ONLY)**
	021535	RELAY- LY1F- 140v **(AUTO-FILL ONLY)**
74	020851	WATER SOLENOID- 240v **(AUTO-FILL ONLY)**
	021617	WATER SOLENOID- 110v **(AUTO-FILL ONLY)**
	021526	WATER INLET ELBOW **(AUTO-FILL ONLY) (NOT ILLUSTRATED)**
	021527	WASHER **(AUTO-FILL ONLY) (NOT ILLUSTRATED)**
75	022108	LINER BLANKING PLATE **(EXCEPT AUTO-FILL)**
76	022256	DRAIN PAN **(AUTO-FILL ONLY)**
77	022107	WATER PAN STOP
78	022106	WATER PAN SUPPORT CHANNEL
79	024031	LINER STIFFENER **(FROM S/N 217977)**
80	024353	HINGE STIFFENER **E85-8 (FROM S/N 217977)**
	024354	HINGE STIFFENER **E85-12 (FROM S/N 217977)**

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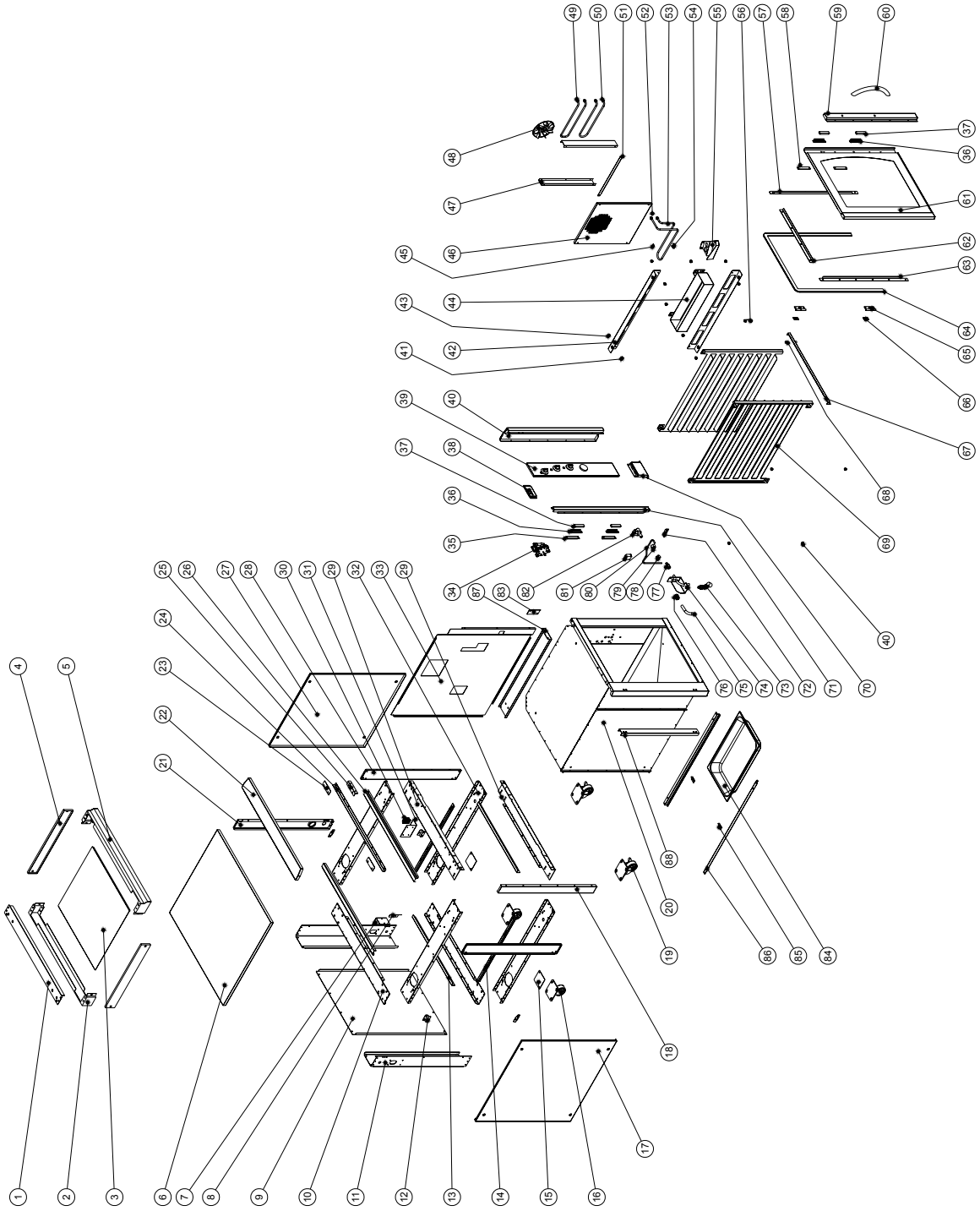
11.2 MAIN ASSEMBLY (HLD only)



Pos	Part No.	Description
1	021438	SUPPORT PLATE **(STACKED UNIT)**
2	020972	STACKING BACK **(STACKED UNIT)**
3	020794	BASE COVER SHEET **(STACKED UNIT)**
4	020968	STACKING SIDE **(STACKED UNIT)**
5	021137	STACKING FRONT **(STACKED UNIT)**
6	021439	TOP COVER **(STAND ALONE UNIT)**
7	022254	RELAY MOUNTING BRACKET **(AUTO-FILL ONLY)**
8	020895	CABLE GUIDE BRACKET
	019239	SNAP BUSH ø19mm **(NOT SHOWN)**

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	022455	CABLE GLAND GN16 **(NOT SHOWN)**
9	020791	BACK PANEL **(E85-8)**
	021430	BACK PANEL **(E85-12)**
10	020781	CHASSIS HORIZONTAL
11	020782	CHASSIS VERTICAL REAR **(E85-8)**
	021428	CHASSIS VERTICAL REAR **(E85-12)**
	020238	DOME PLUG Ø19mm **(NOT SHOWN)**
12	020785	PANEL MOUNTING BRACKET
13	021657	LINER SUPPORT
14	021673	LINER SIDE SUPPORT
15	020899	BLANKING PLATE
16	021668	CASTOR 3" RIGID
17	020787	SIDE PANEL LH **(E85-8)**
	021431	SIDE PANEL LH **(E85-12)**
18	021665	FRONT UPRIGHT LH **(E85-8)**
	021424	FRONT UPRIGHT LH **(E85-12)**
19	021664	CASTOR 3" SWIVEL BRAKE
	018723	FOOT MOUNTING PLATE **(OPTIONAL EXTRA)**
	018724	6" FOOT - ADJUSTABLE **(OPTIONAL EXTRA)**
20	022848	LINER ASSEMBLY **(E85-8)**
	022849	LINER ASSEMBLY **(E85-12)**
	022293	DRAIN PLUG **(NOT SHOWN)**
21	020792	SERVICE ENTRY PANEL **(E85-8)**
	021433	SERVICE ENTRY PANEL **(E85-12)**
	019213	SNAP BUSH ø31.5 **(NOT SHOWN)**
22	004773	TOP CAP WA ENAMELLED
23	021672	CAP RETAINING PLATE
24	021656	CHASSIS TOP STIFFENER
25	021659	RH UPRIGHT MTG BRACKET
26	022303	COVER SUPPORT **(OPTIONAL EXTRA FOR STAND ALONE UNIT)**
27	021661	SIDE PANEL RH **(E85-8)**
	021432	SIDE PANEL RH **(E85-12)**
28	021645	CHASSIS VERTICAL FRONT **(E85-8)**
	021429	CHASSIS VERTICAL FRONT **(E85-12)**
29	024355	FRONT HORIZONTAL BRACE **(FROM S/N 217977)**
	021652	CHASSIS HORIZONTAL FRONT **(TO S/N 217976)**
30	013586	TERMINAL BLOCK
31	025711	TERMINAL BLOCK MTG BRACKET **(FROM S/N 261590)**
	021666	TERMINAL BLOCK MTG BRACKET **(TO S/N 261589)**
32	020786	CHASSIS HORIZONTAL SIDE
	020238	DOME PLUG Ø19mm **(NOT SHOWN)**
33	022055	SIDE INSULATION PANEL **(E85-8)**
	022770	SIDE INSULATION PANEL **(E85-12)**
34	025387	FAN MOTOR 110V
	013431	FAN MOTOR 240V
35	021809	MAGNET MOUNTING BRACKET
36	021692	KEEPER BRACKET PLATED
37	021667	MAGNET
38	020834	CONTROL PANEL MTG BRACKET
39	----------	CONTROL PANEL **(REFER SECTION 11.4)**
40	021649	FRONT UPRIGHT RH **(E85-8)**
	021425	FRONT UPRIGHT RH **(E85-12)**
41	014725	HANGER STUD
42	021679	RACK MOUNTING BRACKET
	021698	SECURING SCREW **(NOT ILLUSTRATED)**
43	021691	HANGER STUD
44	021800	WATER TANK WA
45	012272	CAPILLARY PLATE
46	021642	BAFFLE **(E85-8)**
	021654	BAFFLE **(E85-12)**
47	021643	BAFFLE MOUNTING CHANNEL **(E85-8)**

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	021653	BAFFLE MOUNTING CHANNEL **(E85-12)**
48	022042	FAN
49	021693	DRY ELEMENT 110V
	021694	DRY ELEMENT 240V
	015292	SEALING WASHER
50	022774	DRY ELEMENT 110V 600W
	021694	DRY ELEMENT 240V
	015292	SEALING WASHER
51	022775	HEAT DEFLECTOR
52	015596	CAPILLARY BUNG
53	021695	WET ELEMENT 110V
	021696	WET ELEMENT 240V
	015292	SEALING WASHER
54	012271	CAPILLARY BRACKET
55	021814	WATER TANK FILL SPOUT **(EXCEPT AUTO-FILL)**
56	022776	CAPILLARY BRACKET
57	022757	SEAL STRIP RH **(E85-8)**
	022765	SEAL STRIP RH **(E85-12)**
58	022758	DOOR CATCH PLATE
59	022754	TRIM RH **(E85-8)**
	022763	TRIM RH **(E85-12)**
60	021468	HANDLE
61	022768	DOOR ASSEMBLY **(E85-8)**
	021410	DOOR GLASS **(PART OF DOOR ASSEMBLY) (E85-8)**
	022769	DOOR ASSEMBLY **(E85-12)**
	021411	DOOR GLASS **(PART OF DOOR ASSEMBLY) (E85-12)**
62	022755	SEAL STRIP TOP
63	022756	SEAL STRIP LH **(E85-8)**
	022764	SEAL STRIP LH **(E85-12)**
64	022989	DOOR SEAL **(E85-8)**
	022990	DOOR SEAL **(E85-12)**
65	021663	DOOR HINGE - DRILLED
66	022069	DOOR HINGE SHIM
67	021810	WATER TROUGH WA
68	021697	DRAIN BUNG 10mm **(EXCEPT AUTO-FILL)**
69	021416	RACK WA **(E85-8)**
	021417	RACK WA **(E85-12)**
70	021414	CONTROL PANEL BRACKET
71	021650	CONTROL PANEL TRIM LH **(E85-8)**
	021427	CONTROL PANEL TRIM LH **(E85-12)**
72	020991	SOLENOID MOUNTING BRACKET **(AUTO-FILL ONLY)**
73	022250	FLOAT SWITCH **(AUTO-FILL ONLY)**
74	022097	SENSOR BRACKET **(AUTO-FILL ONLY)**
75	022252	FLOAT SWITCH SLEEVE **(AUTO-FILL ONLY)**
76	022253	BETAFLEX ADAPTOR **(AUTO-FILL ONLY)**
77	022998	REDUCING SOCKET 3/8” X 1/8” **(AUTO-FILL ONLY)**
78	022251	1/2"x1/4" REDUCING UNION **(AUTO-FILL ONLY)**
79	022101	WATER TUBE **(AUTO-FILL ONLY)**
80	021534	RELAY- LY1F- 240v **(AUTO-FILL ONLY)**
	021535	RELAY- LY1F- 140v **(AUTO-FILL ONLY)**
81	020851	WATER SOLENOID- 240V **(AUTO-FILL ONLY)**
	021617	WATER SOLENOID- 110V **(AUTO-FILL ONLY)**
	021526	WATER INLET ELBOW **(AUTO-FILL ONLY) (NOT ILLUSTRATED)**
	021527	WASHER **(AUTO-FILL ONLY) (NOT ILLUSTRATED)**
82	022108	LINER BLANKING PLATE **(NOT AUTO-FILL)**
83	022256	DRAIN PAN **(AUTO-FILL ONLY)**
84	022107	WATER PAN STOP
85	022106	WATER PAN SUPPORT CHANNEL
86	024031	LINER STIFFENER **(FROM S/N 217977)**
87	024353	HINGE STIFFENER **E85-8 (FROM S/N 217977)**
	024354	HINGE STIFFENER **E85-12 (FROM S/N 217977)**

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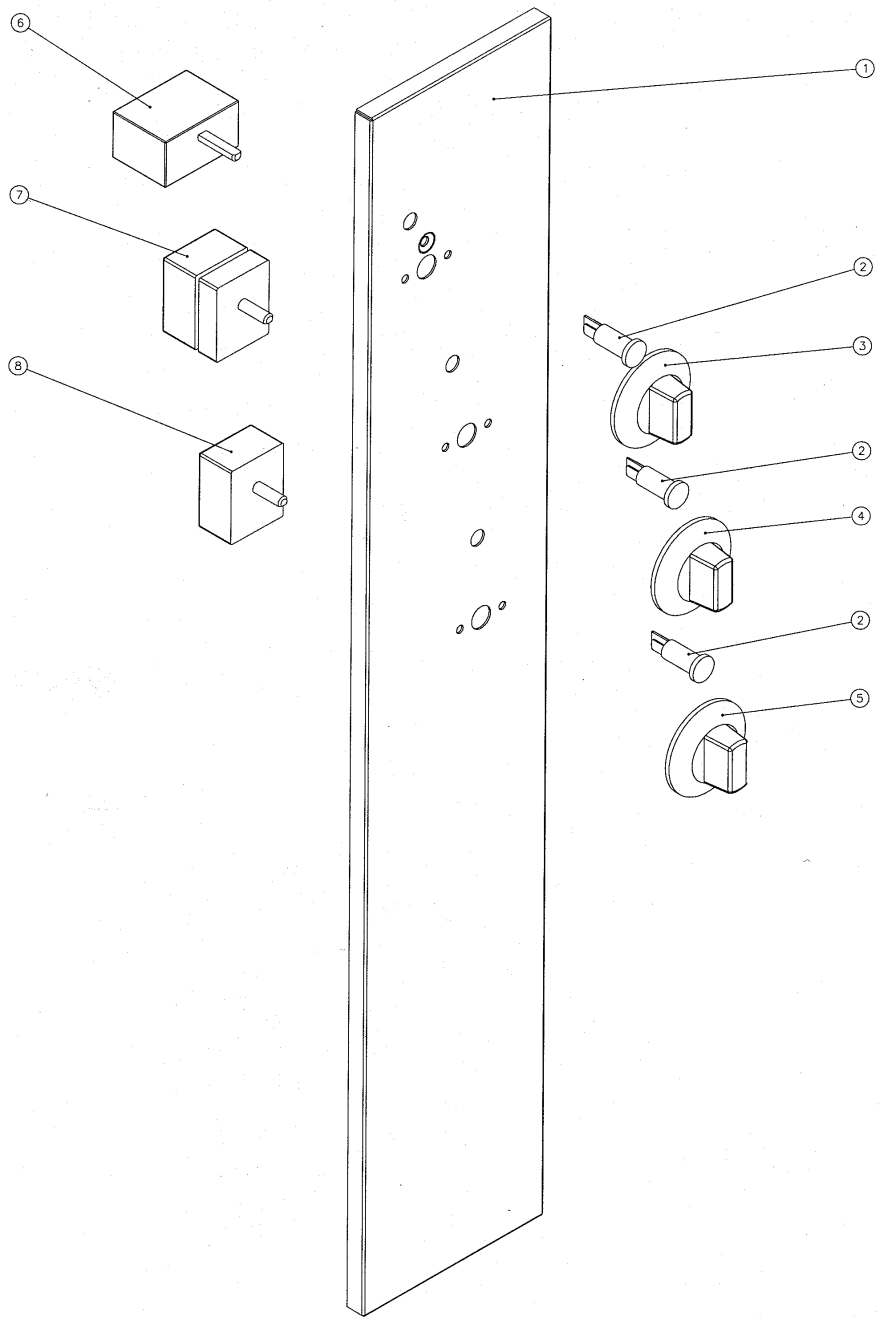
11.3 CONTROL PANEL ASSEMBLY (Non HLD only)



Pos	Part No.	Description
1	004774	CONTROL PANEL °C **(E85-8)**
	004775	CONTROL PANEL °C **(E85-12)**
	004801	CONTROL PANEL ºF **(E85-8)**
	004802	CONTROL PANEL ºF **(E85-12)**
2	020849	INDICATOR LIGHT 240V
	023857	INDICATOR LIGHT 110V
3	020823	KNOB BLANK POWER
4	020823	KNOB BLANK AIR TEMP THERMOSTAT
5	021472	KNOB BLANK HUMIDITY THERMOSTAT
6	020822	POWER SWITCH
7	014233	THERMOSTAT AIR
8	015485	THERMOSTAT HUMIDITY

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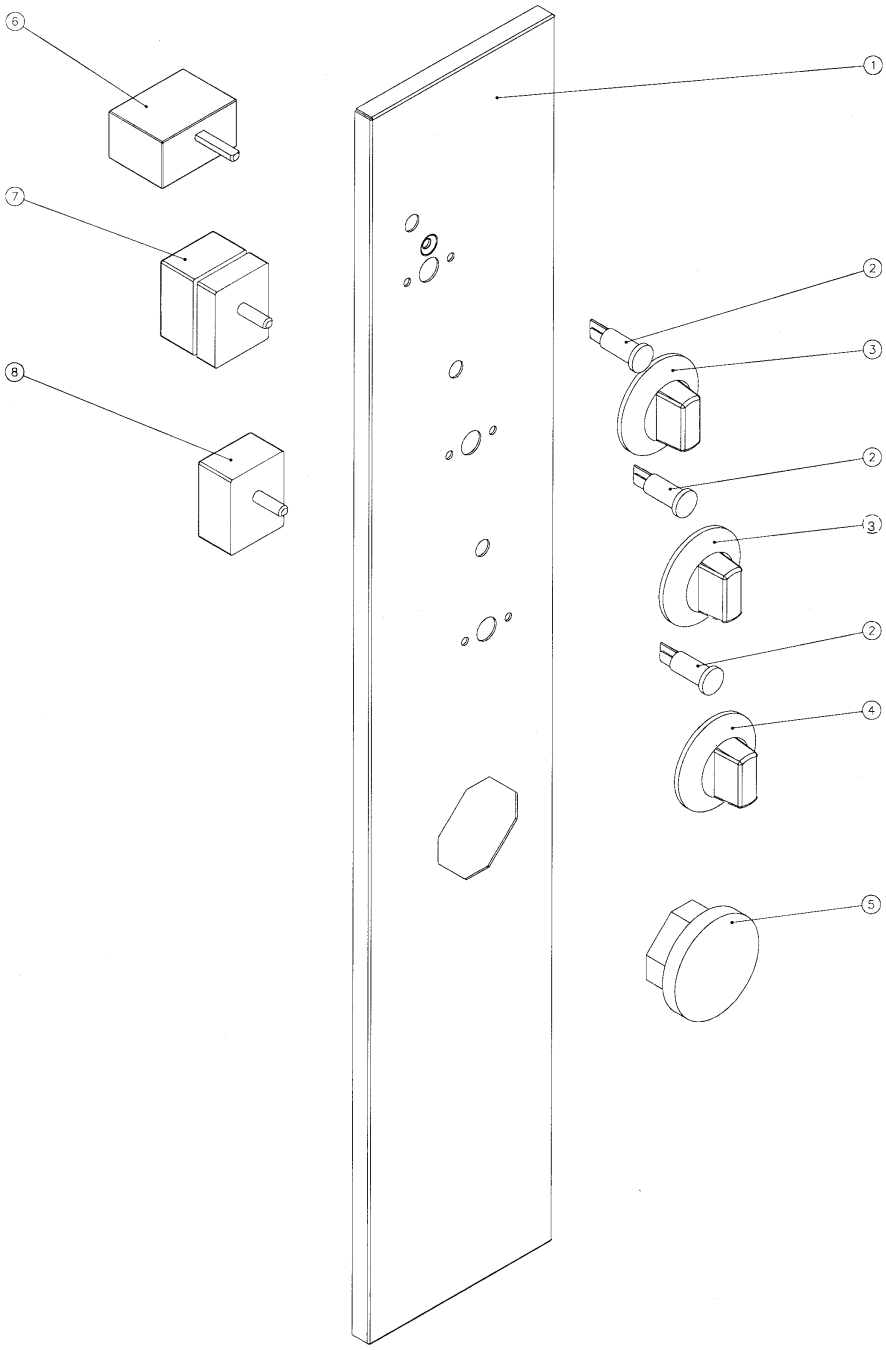
11.4 CONTROL PANEL ASSEMBLY (HLD only)



Pos	Part No.	Description
1	004840	CONTROL PANEL ºC **(E85-8)**
	004841	CONTROL PANEL ºC **(E85-12)**
	004842	CONTROL PANEL ºF **(E85-8)**
	004843	CONTROL PANEL ºF **(E85-12)**
2	020849	INDICATOR LIGHT 240V
	023857	INDICATOR LIGHT 110V
3	020823	KNOB BLANK SELECTOR / TEMPERATURE
4	021472	KNOB BLANK HUMIDITY
5	022788	THERMOMETER **(0-120ºC, DUAL SCALE, ºF AND ºC)**
6	022789	SELECTOR SWITCH
7	022787	THERMOSTAT AIR
8	015485	THERMOSTAT HUMIDITY

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11. SERVICE CONTACTS

AUSTRALIA

VICTORIA - MOFFAT PTY
HEAD OFFICE AND MAIN WAREHOUSE
740 Springvale Road
Mulgrave VIC 3170
Spare Parts Department
Tel (03) 9518 3888
Fax (03) 9518 3838
Free Call 1800 337 963
Fax (03) 9518 3895

NEW SOUTH WALES - MOFFAT PTY
Unit 8/142 James Ruse Drive
Rosehill NSW 2142
Spare Parts
Free Call 1800 337 963
Fax (03) 9518 3895

QUEENSLAND - MOFFAT PTY
30 Prosperity Place
Geebung QLD 4034
Spare Parts
Free Call 1800 337 963
Fax (03) 9518 3895

SOUTH AUSTRALIA - MOFFAT PTY
28 Greenhill Rd
Wayville SA 5034
Tel (08) 8274 2116
Spare Parts
Free Call 1800 337 963

WESTERN AUSTRALIA - MOFFAT PTY
PO Box 689
Joondalup Business Centre WA 6027
Tel (08) 9305 8855
Spare Parts
Free Call 1800 337 963

NATIONAL COVERAGE FOR 24 HOUR SERVICE OR MAINTENANCE DIAL FREE CALL 1800 622 216 (AUSTRALIA ONLY)

CANADA

Lessard Agencies Limited
PO Box 97
Stn "D"
Toronto, ONT M6P 3J5
Tel (416) 766 2764
Fax (416) 760 0394
Free Call 1 888 537 7273

NEW ZEALAND

CHRISTCHURCH - MOFFAT LTD
16 Osborne St
PO Box 10-001
Christchurch
Free Call 0800 Moffat (0800 663 328)
Spare Parts
Tel (03) 389 1007
Fax (03) 389 1276

AUCKLAND - MOFFAT LTD
4 Waipuna Road
Mt Wellington
Auckland
Tel (09) 574 3150
Fax (09) 574 3159
Spare Parts
Free Call 0800 Moffat (0800 663 328)

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UNITED KINGDOM

BLUESEAL LTD
Units 6-7 Mount St
Business Park
Birmingham B7 5QU
England

Tel 0121-327 5575
Fax 0121-327 9711

UNITED STATES OF AMERICA

MOFFAT INC.
3765 Champion Blvd
P.O. Box 4129
Winston-Salem
NC27115

Tel 1-800 551 8795
Fax 336 661 9546

NATIONAL COVERAGE FOR SERVICE OR MAINTENANCE DIAL FREE CALL 1800 551 8795 (USA ONLY)

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APPENDIX A. STACKING KIT

A. UNPACKING

Check kit includes correct parts and correct quantities for the kit purchased as listed.

Item	Description	Qty
A	Double stack front WA	1
B	Double stack back	1
C	Double stack side	2
D	Screw - 1"x 3/16" Raised CSK	20
E	Support plate - 30” Oven only	1

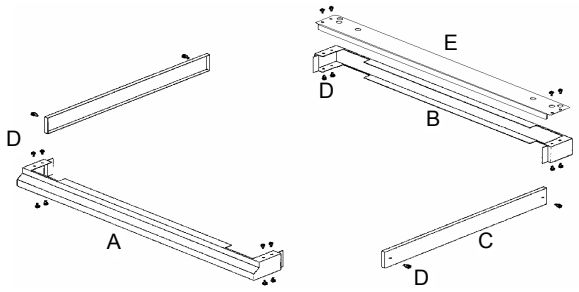

Figure A1

B. PROVER (BOTTOM)

1) Remove side panels from prover, each side panel is held on by 4 screws.
2) Remove rear RH side corner panel (power and water entry points) secured with 3 screws at front edge of panel (Figure A2).

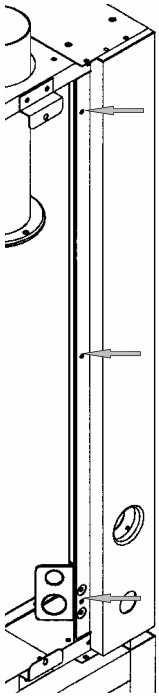

Figure A2

3) Remove the 2 front top side panel support brackets, 2 screws each (Figure A3).

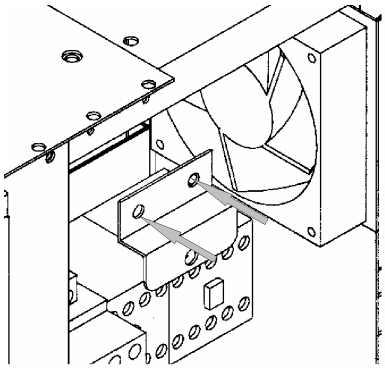

Figure A3

4) Remove the lid.

NOTE: The silicone sealant along the front of the lid will require cutting away. The lid is also sealed to the chassis top in the centre and accordingly it may be necessary to carefully pry the lid off to release sealant in the centre.

C. STACKING KIT ASSEMBLY

1) Assemble loosely the front (A), back (B) and sides (C), with one screw (D) at each corner (Figure A1), in from the sides.
2) Place stacking assembly on top of the prover and secure stacking kit front and rear (A & B) to the prover, using 2 screws (D) in each corner of the unit (at front and back up from the sides). On 30” oven models only, fit the support plate (E) to the double stack rear.
3) Remove temporarily stacking kit side panels.

D. OVEN (TOP)

1) Remove side panels from oven, each side panel is held on by 4 screws.
2) Remove rear RH side corner panel (power and water entry points), secured with 3 screws at front edge of panel (Figure A2).
3) Remove the 2 front bottom side panel support brackets, 2 screws each.

E. STACKING

1) Remove legs / feet from oven and place

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onto prover (on stacking assembly) secure using 2 screws (D) in each corner of the unit (at front and back down from the sides).

2) Tighten all screws on the stacking assembly.
3) Refit stacking kit side panels (C)

F. RE-ASSEMBLY

1) Replace side cover support brackets (Figure A3) at top front of bottom unit and bottom front of top unit, using original screws.
2) Replace rear RH panel (Figure A2) on each unit using original screws.
3) Replace side panels, using original screws.

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APPENDIX B. AUTOFILL KIT

NOTE: All units with 2xxxxx serial numbers are autofill compatible.
Pre year 2000, only units after S\N 890906 are autofill compatible. Up to S\N 891300, a 21810 water trough (drain hole at side as pictured) is required as well as the upgrade kit.

To convert a manual water fill E85 to an autofill E85 proofer, upgrade kit #22300 (110V) or #22294 (240V) is to be installed as follows.

A. PROVER (PREPARATION)

With E85 prover disconnected from electrical supply:

1) Remove RH side panel from proofer, side panel is held on by 4 screws .
2) Remove RH rear service panel (figure 2, I) held on by 3 screws.
3) Remove RH side rack.
4) Remove water tank.
5) Remove water inlet hole blanking bracket (figure 2, D) held on by 2 screws (E).
6) Remove drain plug (figure 3, K) from liner base. Note drain plug has been silicone sealed and it may therefore be necessary to cut around the plug with a sharp knife to assist with removal. Clean off all remaining silicone.
7) Remove blanking plate (figure 1, A) from liner RH side behind fan baffle. Undo 2 nuts from outside cabinet and remove screws (figure 1, B).

Note: Blanking plate has been silicone sealed and it may therefore be necessary to cut around the blanking plate with a sharp knife to assist with removal. Clean off all remaining silicone.

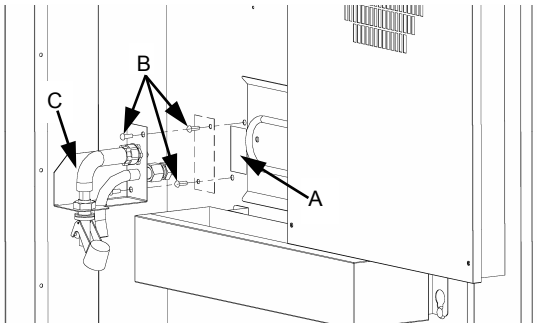

Figure 1

B. KIT INSTALLATION

The prover is now ready for fitting the supplied parts of the upgrade kit

1) Install the water tank float switch and water outlet assembly (figure 1, C) to the liner RH side inner face. Place a bead of silicone seal on the back face of the mounting bracket before securing to liner panel so that cabinet is sealed. Secure with 2 x 3/16" screws (figure 1, B) from inside, and using 3/16" spring washers and nuts on liner outside as was found with the previously removed blanking plate.

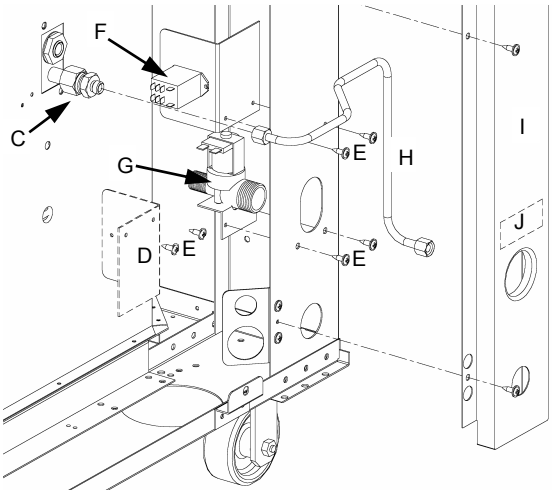

Figure 2

2) Fit relay and mounting bracket assembly (figure 2, F) to RH rear chassis upright with 2 x self tapping screws (E). Note correct orientation of bracket and relay.
3) Fit water solenoid and mounting bracket (figure 2, G) to RH rear chassis upright below previously fitted relay assembly, using 2 screws (E) supplied.
4) Connect 1/4" copper tube (figure 2, H) to water solenoid (figure 2, G) and outlet tube (figure 2, C). Tighten all fittings.
5) Connect wiring provided as per wiring diagram (refer section 8).

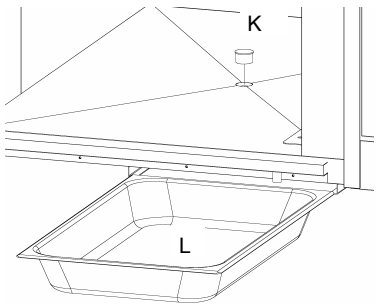

Figure 3

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6) Slide drain pan (figure 3, L) under proofer on the 2 support rails fitted to the cabinet underside. Pan should be pushed back until it stops. Drainage from both the inner liner and the door condensate channel will now be collected by the drain pan.
7) Affix max water pressure label (supplied) to RH rear service panel (figure 2, I) above inlet hole.

C. WATER CONNECTION

1) Connect cold water supply (1/2" ID hose) to the water connection elbow supplied. Ensure leak free connection. Maximum water pressure is 80psi.
2) Fit elbow to inlet connection on solenoid (figure 2, G) ensuring supplied washer is used.
3) Re-fit the RH rear service panel (figure 2,I), using 3 screws previously removed.
4) Turn on water supply, check connections for leaks, no water should be flowing into the tank.

D. RE-COMMISSIONING

1) Re-attach RH side panel using 4 screws previously removed.
2) Replace water tank.
3) Turn on power to proofer. Check that water tank fills, and stops filling approximately 20mm from top of tank.
4) Turn power off, empty tank and repeat step 3 above.
5) Replace RH side rack.

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